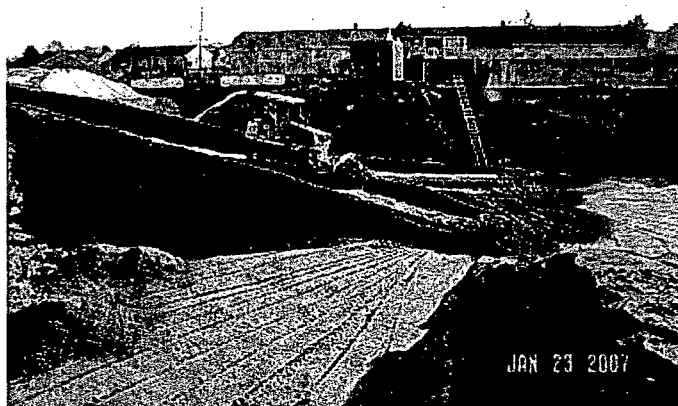




U. S. Army Corps of Engineers Kansas City District

Federal Creosote Superfund Site OU3 - Rustic Mall Remedial Action Report

August 2008





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Attn: CENWK-PM-EB/Todd Daniels
Project: Contract No. W912DQ-06-D-0007
Deliver Order No. 008
Subject: Federal Creosote Superfund Site
Final OU3 Rustic Mall Remedial Action Report

Dear Todd:

CDM is pleased to submit 2 copies of the subject OU3 Rustic Mall Remedial Action Report, which has been revised per comments received from USACE and EPA. Please note that Appendices C and D will be provided upon receipt. We have also provided 2 copies to EPA and 1 copy to USACE NY District.

Very truly yours,

Michael Popper
Project Manager
CDM Federal Programs Corporation

cc: Distribution List
file: 6142-202

501907

REMEDIAL ACTION REPORT

**OU3 - RUSTIC MALL REMEDIAL ACTION
FEDERAL CREOSOTE SUPERFUND SITE
MANVILLE, NEW JERSEY**

CONTRACT NO.: DACW41-01-D-0001

PREPARED FOR

**USACE - KC DISTRICT
601 East 12th Street
Kansas City, MO 64106**

PREPARED BY

**CDM FEDERAL PROGRAMS CORPORATION
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August 2008

**REMEDIAL ACTION REPORT
OU3 - RUSTIC MALL
RECORD OF PREPARATION, REVIEW, AND APPROVAL
FEDERAL CREOSOTE SUPERFUND SITE
MANVILLE, NEW JERSEY
RUSTIC MALL REMEDIAL ACTION**

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Date:

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Organization: USACE Kansas City District

Name: Todd Daniels

Title:

Signature:

Date:

This report has been prepared in accordance with EPA OSWER 9320.2-09A and will be used as a basis for development of the site Project Closure Report.

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Section 1

Introduction

The Federal Creosote Superfund site, which includes a 137-property residential community known as the Claremont Development and a commercial area known as the Rustic Mall, is located in the Borough of Manville, Somerset County, New Jersey. The site is over 50 acres and is bordered to the north by the Norfolk Southern Railroad, to the southeast by the CSX Railroad, to the south by East Camplain Road, and to the west by South Main Street.

U.S. Army Corps of Engineers (USACE) Kansas City provided technical support to the U.S. Environmental Protection Agency Region 2 (EPA) during the Rustic Mall remediation at the Federal Creosote Superfund site. In support of these efforts, the USACE contracted with Severson Environmental Services, Inc. (SES) to perform the remedial construction in accordance with the project design documents. The work was performed under Pre-Placed Remedial Action Contract (PRAC) W912DQ-04-D-0023.

The objective of the project was to remediate the portion of Rustic Mall that contain soil contaminated to levels greater than the analytical cleanup goals (ACGs) and that may pose risks to human health and may continue to be a source of groundwater contamination.

USACE retained the services of CDM Federal Programs Corporation (CDM) to perform the remedial design and to prepare the remedial action report. The design was performance-based. Minimum requirements were presented to allow the contractor to develop the methods and procedures for accomplishing the design objectives. All work was performed in accordance with site-specific project plans prepared by SES, based on the remedial design documents. Each plan was submitted to USACE for approval prior to commencement of field activities.

A pre-construction conference meeting was conducted at the site office on August 3, 2005. Remedial action construction started in June 2005 and was completed in February 2008. On March 19, 2008 upon correction of all construction deficiencies and submittal of outstanding project document, representatives of EPA, USACE and SES attended a final inspection.

1.1 Remedial Action Report Objectives

The objectives of this report are summarized below:

- Provide a summary of pertinent background information including site description, history, and discussion of Operable Units (OUs)
- Present a detailed chronology of events for the remedial action effort
- Present an extended summary of the project performance and construction quality control standards instituted by SES to ensure the successful completion of the remedial action

- Present summary of pre-remedial and remedial action activities completed over the course of the project
- Present a summary of unusual events encountered during the completion of site activities
- Present a summary of lessons learned
- Present a summary of the project final inspection
- Present a summary of SES's operation and maintenance obligations relative to site restoration
- Present a summary of the project costs

1.2 Site Description

The Federal Creosote site is located on a topographic high within the Raritan River watershed system. The Raritan River passes approximately 2,000 feet north and east of the site, and the Millstone River, a tributary of the Raritan, is located approximately 1,200 feet to the southeast. The confluence of the two rivers lies approximately one mile east of the site.

1.3 Site History

The Federal Creosote site was the site of the former American/Federal Creosote Wood Treatment facility, which operated from approximately the 1910s to 1957. The plant operated as a wood (e.g., railroad ties) treatment facility that used creosote as a preservative. Historical aerial photographs indicate that the main wood treatment facility was located in the southwest corner of the site, where the Rustic Mall is currently located. The wood treatment facility included several large buildings, a pressure cylinder, and five vertical storage tanks.

Two lagoons and associated canals that serviced the facility were located in the north central and southeast sections of the site. The lagoons and canals are believed to have contained liquid waste generated from the creosote wood preservation operation. The lagoon in the north central section of the site and its associated canal are referred to as Lagoon A and Canal A, respectively. The lagoon and canal in the south portion of the site are referred to as Lagoon B and Canal B, respectively. Additionally, several impoundments, standing liquid areas, and stained areas were identified northeast of the main treatment facility. Figure 1-1 shows the overall site layout.

According to historical aerial photographs, the central portion of the site was mainly an open lumber storage yard, containing stacks of wood material such as untreated lumber, poles, beams, and railroad ties. Darker-toned, apparently treated wood was located in an area referred to as the drip area, which occupied the northern portion of the open lumber storage yard, and along the northern rail spurs and loading platform.

Beginning in 1962, the 137 residential unit Claremont Development was constructed in the areas of this site that were the lagoons, canals, drip areas and lumber storage areas. The lagoons and the canals were reportedly filled in, without removing the waste from the lagoons, during the residential community development. The southwestern portion of the site was developed into the Rustic Mall.

In April 1996, the New Jersey Department of Environmental Protection (NJDEP) responded to an incident involving the discharge of an unknown liquid from a sump located at one of the Claremont Development residences on Valerie Drive. A thick, tarry substance was observed flowing from the sump to the street. In January 1997, the Borough of Manville responded to a complaint that a sinkhole had developed around a sewer pipe in the Claremont Development along East Camplain Road. Excavation of the soil around the pipe identified a black tar-like material in the soil. Subsequent investigations of these areas revealed elevated levels of contaminants consistent with creosote.

In October 1997, EPA's Environmental Response Team (ERT) initiated a site investigation limited to properties believed to contain creosote contamination based on analysis of historic aerial photographs as well as input from residents. This investigation included the collection of surface and subsurface soil samples at select locations within the residential development. The result of this investigation indicated that the contamination was extensive, uncontrolled, and had impacted sediment, soil and groundwater in the area.

From February through April 1998, EPA collected over 1,350 surface soil samples on 133 properties in and adjacent to the Claremont Development in order to determine if an immediate health risk existed. EPA identified some properties with surface soil in yards containing elevated levels of creosote posing a long-term health risk. As a result, EPA applied topsoil, mulch, seed and sod to 11 of the properties that contained elevated levels of creosote in surface soil, to limit the potential for exposure.

In November 1998, EPA initiated a remedial investigation and feasibility study (RI/FS) to more fully characterize the nature and extent of contamination at the site. Subsurface soil sampling started in December 1998 and was completed in March 1999.

The site was proposed for the National Priorities List (NPL) on July 27, 1998, and was formally placed on the NPL on January 19, 1999.

The data from the 1997/1998 investigation conducted by EPA indicated that the canal and lagoon areas are the major sources of soil and groundwater contamination in the Claremont Development. EPA then prepared an Engineering Evaluation/Cost Analysis (EE/CA) and a focused EE/CA, to evaluate remediation options for the lagoon and canal source materials. The focused EE/CA concentrated on the preferred remedy of demolition of structures and excavation of the lagoon and canal material, with off-site treatment and disposal.

On September 28, 1999, EPA signed a Record of Decision (ROD) for the remediation of the lagoons and canals. The ROD designated the remediation of the lagoons and canals as OU1. EPA addressed the remaining site areas under separate Operable Units, according to the following:

OU2 - Residual Levels of Creosote Contamination in the Claremont Development. OU2 ROD was signed by EPA on September 29, 2000.

OU3 - Rustic Mall Contaminated Soil, Groundwater, Surface Water, and Sediment. OU3 ROD was signed by EPA on September 30, 2002.

1.4 USACE and EPA Project Management

USACE Kansas City District was responsible for the design and construction. USACE New York District (USACE NY) was responsible for construction oversight. USACE NY provided full-time, on-site technical representative throughout the duration of the project. USACE representatives were responsible for assuring the project was executed in accordance with design documents and site-specific plans. USACE on-site representatives maintained a direct line of communication with SES's project management team and EPA Region 2 Remedial Project Manager (RPM). Weekly project meetings were held at the site throughout the duration of the field activities. Health and safety, work progress, field observations, problems and conflicts, schedule, submittals, quality control, changes, cost tracking, and community relations were discussed during these meetings.

Key project personnel included:

Rich Puvogel EPA Region 2 - Remedial Project Manager

Todd Daniels USACE - Kansas City District Project Manager

Gene Urbanik USACE - New York District - New Jersey Area Engineer

Neal Kolb USACE - New York District - Resident Engineer

Section 2

Operable Unit Background

The OU3 ROD reiterates the action levels for soil contaminated with PAHs above the cleanup goals determined for the site in the OU2 ROD. The OU3 ROD specified excavation and off-site disposal of soil containing PAHs in excess of the ACGs from the Rustic Mall. The OU3 ROD also includes institutional controls for soil contamination exceeding depths of approximately 14 feet as part of the remedy for Rustic Mall soil. A summary of background information from the historic investigations is presented in this section.

2.1 Geology

2.1.1 Regional Geology

The site is underlain by approximately 25 to 35 feet of unconsolidated sediments of glaciofluvial origin, which in turn are underlain by Late Triassic siltstone and shale.

Stanford (1992) has mapped unconsolidated sediments in the vicinity of the site above altitude 50 feet relative to mean sea level (msl) as Upper Raritan Terrace Deposits. These Middle Pleistocene sands and gravels, which form a terrace about 20 to 30 feet above the present Raritan River alluvial plain, were associated with 60 to 100 feet of weathering and down-cutting of bedrock in both main and tributary valleys during the Illinoian glacial event. Regionally, these deposits consist of sand and pebble gravel, with minor silt, clay, and cobbles. Total thickness in this unit of up to 50 feet has been reported (Stanford 1992).

The subsequent Millstone Terrace Deposits (altitude 40 to 50 feet above msl) surround the Upper Raritan Terrace. Stanford correlates the Millstone Terrace with the Middle to Late Pleistocene Sangamon glacial event. Deposits with lithology similar to the Raritan Terrace have been observed up to 30 feet thick, forming a terrace about 10 to 15 feet above the present floodplain of the Millstone River. Recent alluvial deposits, consisting of up to 20 feet of sand, silt, and clay with minor organic material, surround deposits of the Millstone Terrace.

Bedrock beneath the site is the Passaic Formation, one of the sedimentary formations of the Newark Basin of New Jersey, which contains a thick sequence of Late Triassic and Early Jurassic non-marine sedimentary and igneous rocks. The predominant lithology is reddish-brown siltstone, mudstone, shale, and occasional sandstone of fluvial origin although grey to black lacustrine sequences of mappable scale have been observed in the Passaic Formation throughout the central Newark Basin. Faulting is relatively common, particularly in the western portions of the Passaic Formation outcrop. Rocks of the Passaic Formation typically contain three prominent fracture sets, one parallel to bedding planes and two sets of high angle fractures. Of the high angle fractures, a primary set is generally sub-parallel to strike, and a secondary set is perpendicular to strike.

2.1.2 Site Geology

The deposits underlying the site were described as silt, which was then underlain by a sandy gravel that extended to bedrock (Weston 1998).

The lithologies of the deposits have been characterized in detail during the Focused Feasibility Study (FFS). The lithologic descriptions suggested the following sequence (from ground surface to bedrock) of deposits to be typical at the site:

- Fill
- Sand and Gravel
- Silt and Clay
- Sand and Gravel (with some silt and clay layers and seams)
- Shales (bedrock)

The fill varies in composition across the site and predominantly contains a poorly sorted mixture of gravel, sand, silt, and clay that varies in color from yellowish brown to brown to reddish brown. The unit also contains lesser amounts of coal/ashes, asphalt, concrete, and brick fragments. The fill unit fluctuates in thickness across the site from a minimum of approximately two feet to a maximum of approximately five feet, but typically the thickness does not exceed four feet. Topsoil, which is part of this unit, is commonly found to be six to eight inches thick. The fill unit appears to be continuous underneath the Claremont Development.

Underlying the fill unit is a sand and gravel deposit. The deposit may generally be described as a fine to coarse sand with little to some fine to medium gravel and trace amounts of silt. The color is typically brown or reddish brown. The typical thickness reported for the unit range from three to six feet, and rarely does the thickness exceed seven feet. This sand and gravel unit appears to be continuous within the boundaries of the Claremont Development. Immediately south and southeast of the development in the Lost Valley residential area, this unit is not present, due to a decrease in topographic elevation.

A deposit of silt and clay underlies the sand and gravel unit. The unit is best described as a dark yellowish brown silt layer that is two feet thick with an underlying reddish-brown clay layer that is one foot thick. In many instances the silt layer is mottled or gleyed (additionally, the lower reaches of the overlying sand and gravel deposit are also sometimes gray). Within the boundaries of the Claremont Development, the thickness of the unit fluctuates from a minimum of four inches to a maximum of nine and one half feet. Additionally, both grain sizes (silt overlying clay) were not encountered at every boring location, however the deposit of silt and clay is believed to be relatively continuous beneath the development.

A second sand and gravel unit lies beneath the fine-grained unit. The unit is generally described as a reddish-brown fine to coarse sand with a trace to some fine to medium gravel, and trace amounts of silt; occasional seams and layers of well-sorted sand are encountered. Within the unit a discontinuous layer of silt and clay can be traced. Referenced to depth, the fine-grained layer occurs near the mid-section of the sand and

gravel unit. Additionally, at the base of the unit a discontinuous layer (consisting of grain sizes from clay to cobbles) that is believed to be till has been identified. The thickness of the sand and gravel deposit (including the fine-grained layer and the basal till) fluctuates across the site from approximately 15 feet to 25 feet, with the typical thickness in the range of 19 to 23 feet. The basal till (which has been identified based on grain size, grain angularity and penetration rate increase) is approximately one foot thick and is likely not continuous.

The bedrock color is typically reddish brown and shows lithologies typical of the Passaic Formation, with alternating red-brown siltstone, sandstone and shale. The rock was described as highly to moderately weathered, friable and soft. The bedrock surface varies in altitude beneath the development from approximately 12 to 17 feet above msl, with most of the altitudes near 15 feet below ground surface (bgs). No site-wide slope trends of the bedrock surface are apparent.

2.2 Hydrogeology

2.2.1 Regional Hydrogeology

The Passaic Formation has been extensively developed for groundwater supplies. Wells capable of yielding tens to hundreds of gallons per minute have been completed throughout much of the formation, generally at depths of 200 to 500 feet (Vecchioli, 1965). The rocks have little primary permeability. Virtually all groundwater movement occurs through the intersecting fracture sets. Rocks of the Passaic Formation typically contain three prominent fracture sets, one parallel to bedding planes and two sets of high angle fractures. Of the high angle fractures, a primary set is generally sub-parallel to strike, and a secondary set is perpendicular to strike. It has long been recognized that the Passaic (Brunswick) aquifer is strongly anisotropic, with the axis of maximum hydraulic conductivity generally parallel to bedding strike. Although the origin of the anisotropy is clearly related to the fractured nature of the aquifer, there has not been universal agreement over the immediate cause.

No uses of groundwater from the unconsolidated unit in the immediate vicinity of the site are known and, with the limited available drawdown, it is unlikely that a usable quantity of water could be obtained from the unit. Fluvial gravel deposits along the Raritan River have been used for water production, including potable water use. The Borough of Manville owns gravel wells near the Raritan River, which were formerly used for potable water.

2.2.2 Site Hydrogeology

The site hydrogeology is described in detail in the Groundwater, Surface Water and Sediment Draft Remedial Investigation Report, September 2000. An unconfined (water table) aquifer with a saturated thickness of 10 to 14 feet was observed in the unconsolidated sediments at depths from about 14 to 21 feet below grade. Locally, isolated perched water zones have been identified at depths of 6 to 10 feet below grade. Beneath the site, the groundwater surface occurs in the deep sand and gravel unit. It

appears likely that groundwater in the uppermost zone of the bedrock is in direct hydraulic connection with the saturated zone in the unconsolidated sediments.

2.3 Summary of Field Investigation Data

CDM conducted a pre-design field investigation for OU1 under Base Contract DACW41-99-D-9009 with the USACE, Technical Design for Remedial Selection and Pre-design Planning. The sampling program was developed to characterize the nature and extent of creosote product material associated with the historic lagoons, canals and exit trench areas. To accomplish this objective, CDM defined the difference between stained soil and product. For the purposes of this investigation, product was considered to be above 30% creosote based on the definitions below.

1-3%: There is a creosote odor and/or low HNu hits. There is some creosote sheen on the grains, but the concentration is not high enough to discolor the grains. (SHEEN)

10%: There is enough creosote on the soil grains to almost completely cover the grains and mask their original color. There is no creosote in the pore spaces. (STAIN)

15%: There is enough creosote on the soil grains to completely cover the soil grains and mask their original color. There is no creosote in the pore spaces. (STAIN)

20%: The creosote thickly covers the soil grains, completely masking the original color and begins to fill the pore spaces. (STAIN)

25%: The creosote thickly covers the soil grains, completely masking their original color and product is evident in the pore spaces. If you hold the sample, the creosote will not flow out of the pore spaces. (STAIN)

30%: The creosote thickly cover the soil grains, completely masking their original color and the pore spaces are half full of creosote. If you hold the sample, the creosote will not flow out of the pore spaces. (PRODUCT)

40%: The creosote thickly covers the soil grains, completely masking their original color and the pore spaces are almost full of creosote. If you hold the sample, the creosote will flow out of the pore spaces. (PRODUCT)

50%: The creosote has completely covered the grains and filled the pore spaces, but the core is still matrix supported. If you hold the sample, the creosote will flow out of the pore spaces. (PRODUCT)

70%: There is more creosote than matrix. The creosote is free flowing, but there is still 30% debris in the creosote. (PRODUCT)

85%: There is significantly more creosote then matrix. The creosote is free flowing. There is almost no matrix in these areas. (PRODUCT)

2.3.1 Remedial Investigation

The objective of the RI was to characterize the lithology and the nature and extent of contamination in the surface and subsurface soil in Rustic Mall. The RI included installation of shallow and deep soil borings, collection of soil samples, and installation of shallow and deep monitoring wells in ten of the borings. During the RI, CDM installed 43 shallow and 23 deep soil borings in Rustic Mall. The deep borings were advanced to the bedrock surface, which is approximately 35 feet deep at this site, while the shallow borings were advanced to varying depths in the unconsolidated zone, primarily targeting the depth of an observed clay/silt layer at approximately 14 feet bgs. The lithology of each boring was continuously logged. Based on a schedule outlined in the project work plan, soil samples were collected at each boring and analyzed for target compound list (TCL) volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), and pesticide/polychlorinated biphenyls (PCBs) and target analyte list (TAL) metals. Some samples were also analyzed for asbestos, pH, total organic carbon (TOC), and grain size, as planned. Monitoring wells were installed in ten of the deep borings to determine the hydraulic gradient across the unconsolidated aquifer unit.

2.3.2 Pre-Design Investigation

In addition to RI, CDM was tasked with conducting a pre-design field investigation for OU3. The pre-design investigation focused on defining the limits of soil contaminated with creosote and PAHs above the ACGs defined in the OU3 ROD, with the goal of delineating the PAH contamination to the extent that the NJDEP Post-Excavation Sampling Criteria found in New Jersey Administrative Code (NJAC) 7:26E were met. The field investigation includes:

- Design Investigation. Collect and analyze samples from borings located and spaced to delineate the contamination noted in borings during the RI.
- Waste Characterization Sampling. Collect and analyze samples at a frequency of one per 200 tons of soil to be disposed, as required by the Subtitle C disposal facility. This equates to roughly one sample in every 4 feet boring interval.
- NJDEP post-excavation sample information. Collect and analyze samples at such a frequency that designed excavations will have a minimum of one samples per 900 square feet of excavation, and one per 30 linear feet of excavation sidewall.

The pre-design investigation addressed three contaminated areas of the Rustic Mall, which are referred to as the Northeast, Southeast, and South Central Areas in the OU3 ROD. These areas are renamed as North, South, and Southwest Areas, respectively, and referred to as such throughout the design documents and this report.

The OU3 pre-design field activities included drilling soil borings and collecting soil samples at various intervals. Using the ROD as a guide, several borings were proposed to further delineate the contamination observed during the RI in these three contaminated areas. In general, a 30 by 30-foot grid was imposed on each area, with borings located in the middle of each grid interval, and samples collected and analyzed

at a frequency of one sample per 2 feet of boring depth. Most of the borings were advanced to a maximum depth of 18 feet bgs, but a few borings were installed deeper to approximately 35 feet bgs at the request of NJDEP to investigate deeper pockets of contamination. In addition, several shallow borings were installed to 4 feet deep in areas presumed to contain only shallow surface contamination.

The soil borings were installed using direct-push (Geoprobe) drilling and sampling method. Each borehole was abandoned with bentonite chips or a cement-bentonite mixture after removing the drilling tools from the subsurface. All locations were restored to pre-existing conditions.

Soil samples were collected for polycyclic aromatic hydrocarbons (PAH) analysis using EPA SW-846 Method 8270c. Lithology of each boring was continuously logged, and observations were made of the OVM readings, moisture content, and visible signs of contamination.

CDM conducted five rounds of field investigations. CDM mobilized the first round of field investigation in Rustic Mall in April 2003. Results were compiled and presented, along with a preliminary excavation drawing, in July 2003 (CDM 2003). A second round of field investigation was conducted in September 2003. The intent of the second round was to fill data gaps left from the first round of field investigation since the exact limits of excavation could not be completely determined from the first round results. The second round focused primarily on the southeast portion of the North Area in the alleyway east of the main Rustic Mall building, the southern limits of the South Area, along East Camplain Rd, and the entire border of the Southwest Area. Based on the second round of field investigation, a third round of sampling was required to fill the remaining data gaps. The third round of field investigation was conducted in January 2004. Results from the second and third rounds of field investigation were presented in April 2004 (CDM 2004).

Based on results of the field investigation, remedial design plans were developed showing excavation outside the limits of the existing buildings in Rustic Mall. The mall owners were in negotiations with the Borough of Manville during this time regarding a redevelopment plan for the site. The plans called for demolition of the main building and the Summit Bank building, located at the south end of the Southwest Area. As a result of redevelopment planning, during the course of remedial design, the tenants vacated these buildings, and they became available for remedial design investigation.

Furthermore, the three rounds of investigation showed evidence of contaminated soil to be potentially under the footprint of the main Rustic Mall building at the north and south ends. There was also an unbounded limit at the south wall of the Southwest Area, adjacent to the Summit Bank Building. For these reasons, the fourth round of field investigation, conducted in February 2005 after the tenants had vacated the retail space in the main building and the Summit Bank, CDM conducted a subslab investigation within the footprint of these buildings. There were 2 borings in the Summit Bank, 36 borings in the retail spaces in the north portion of the main building, and 12 borings in the former retail space in the south end of the main building. Results were presented in

May 2005 (CDM 2005a) and were used in developing the final remedial design, submitted in January 2006.

Finally, during remedial action within the footprint of the main building in the North Area, SES discovered evidence of contamination in the form of a potential canal connecting the south end of the North Area to the Southwest Area. The evidence was supported by historic aerial photographs, which show a long, thin feature connecting Lagoon A to the main process area in the Southwest Area. Thus, the canal became the subject of a fifth round of remedial design investigation. In April 2007 CDM installed 60 borings in transects along the axis of the canal and in other previously inaccessible areas, to delineate the lateral and vertical extents of the contamination observed by SES. The design drawings were revised and submitted in July 2007.

Waste characterization for OU3 was performed using the results from the field investigations. Waste characterizations for South/Southwest Areas and North Area were presented separately in November and December 2005, respectively (CDM 2005b and CDM 2005c).

2.3.3 Topographic Survey

The locations of the pre-design borings were surveyed and added to the existing topographic base map for the site, which was prepared by Kennon Surveying Services, a licensed New Jersey land surveyor. The boring locations are shown on the contract drawing.

2.4 Design Criteria

The ROD for OU3 specified excavation of product, creosote stained soil, and residual contaminated soil that exceeds the ACGs. The contaminated soil that exceed the ACGs as determined by analytical laboratory were addressed in accordance with the OU3 ROD, which specified the excavation and transportation for off-site treatment and/or disposal of soil containing PAHs in excess of the ACGs. Table 2-1 contains the site-specific ACGs, which were used as the basis for the design and remediation.

2.5 Remedial Design Documents

Based on the investigation data and established design criteria, CDM developed the design documents, including DAR, drawings, specifications, and cost estimate. The contract drawings included detailed construction sequence plans, in which the Rustic Mall was further divided into four work areas to facilitate traffic control, utility relocation, and construction sequence planning.

2.5.1 Site Specific Plans

For the most part, work plans developed for the Lagoon B (OU1 Phase 1) remediation were utilized in addressing all major project elements. Several work plans were amended to reflect the Rustic Mall property-specific conditions and to ensure compliance with the project design documents. USACE reviewed and approved all plan addenda prior to implementation. The following plans were amended and/or submitted for approval:

- Excavation and Handling Plan (Addendum) - (April 14, 2006)
 - Traffic Control and Transportation Plan (Addendum) - (April 14, 2006)
 - Soil Erosion and Sediment Control Plan (Addendum) - (July 25, 2005)
 - Ambient Air Monitoring Plan (Addendum) - (August 1, 2005)
-

Section 3

Remedial Construction Activities

Rustic Mall remedial construction activities started in June 2005 and were completed in February 2008. The construction was conducted in phases to coordinate with the Borough of Manville's redevelopment plans for the property and to minimize impacts to business owners. Several businesses in the main Rustic Mall building were still open when construction began. The North Area was divided in two (North Area 1 and North Area 2) so that the grocery store at the north end of the building could remain open during construction in North Area 2. The work was performed in the following sequence: North Area 2, Southwest Area, North Area 1/Central Area, and South Area. Work areas are shown on Figure 1-1.

A summary of the major construction activities completed at the Federal Creosote site during the Rustic Mall remediation is presented below.

3.1 Site Preparation

Site preparation activities including site survey, temporary facilities mobilization, resident relocation, erosion and sediment control, site security, etc. were performed prior to commencement of remedial construction. Site preparation activities are described in the following paragraphs.

3.1.1 Site Survey

The Rustic Mall properties were surveyed during the pre-design investigation as described in Section 2.3.2. Pre-remedial conditions of the properties are shown on the contract drawings. AutoCAD files of the property surveys were provided to SES prior to construction.

3.1.2 Temporary Facilities

The OU3 Remedial Action took place entirely in Rustic Mall. Because the excavation included the area used as the Support Zone during previous phases of work, the excavation was completed in stages, and the Support Zone was relocated to the northeast corner of Rustic Mall during the course of remedial construction. The support facilities included 2 double-wide, 60-ft long trailers. One trailer was used by the EPA and USACE, one was used by SES. Smaller trailers were used by the SS&HO, another for the construction quality control personnel, and a security trailer. Temporary water, sanitary, electric and telephone services were also relocated to the temporary facilities. The support zone was completely secured with an 8 feet high chain link fence.

The decontamination pad constructed within the Contamination Reduction Zone (CRZ) of Lagoon A was used for equipment decontamination during the Rustic Mall remediation. The pad was integrated with the truck tarping station and was constructed using 6-mil polyethylene liner, berm containment, and water collection sump. The sump was equipped with an electric pump. Collected wastewater was treated at the on-site wastewater treatment plant prior to being discharged to surface water via the storm

sewer system. Individual CRZs were established at each remote excavation location for personnel decontamination, which consisted of removal of personal protective equipment (PPE).

Three primary stockpiles were also established in the footprint of the former Lagoon A area to facilitate soil and debris staging of the three waste types prior to off-site disposal. The stockpiles included Subtitle D, Subtitle C, and a thermal treatment pile.

3.1.3 Soil Erosion and Sediment Control

SES developed a Soil Erosion and Sediment Control Plan for the Lagoon B remedial activities. To address site-specific changes for the OU3 remediation, SES submitted an addendum of the original plan to Somerset-Union County Soil Conservation District (SCSCD) for recertification on July 25, 2005. To control offsite siltation/erosion that may result during precipitation events, the perimeter of excavation areas and the stockpiles were encompassed with silt fence. Storm water inlets were covered with filter fabric and surrounded by hay bales to prevent siltation of the system. Finally, the stabilized construction entrance was maintained during the course of the Rustic Mall construction.

3.1.4 Site Security

Site security was provided by Internal Intelligence, a security firm located in New Jersey, under subcontracting agreement with SES. Security guard was stationed in an office trailer located within the support zone. Security guard was on site 16 hours on weekdays and 24 hours on weekends and holidays. During the course of the construction, SES personnel provided site security during regular working hours. All visitors were required to sign-in upon entering the support zone.

3.2 Property Access

Access to the properties to be remediated was coordinated through EPA and USACE. OU3 remedial action took place on property belonging to Rustic Mall and the Borough of Manville. Prior to the start of the remedial action, EPA obtained access agreement for Rustic Mall.

3.3 Deed Notice Properties

As per the OU3 ROD, the remedy for Rustic Mall soil includes institutional controls for soil contamination exceeding depths of approximately 14 feet bgs. Institutional control in the form of deed notice will be placed on the property by NJDEP in instances where soil containing residual creosote or PAH contamination cannot be excavated due to depth restrictions or proximity to buildings. The deed notice will record the presence of soil contamination below 14 feet bgs and place restrictions on excavations below approximately 14 feet bgs on the property.

3.4 Demolition

Remedial excavation required the removal of at-grade features such as pavement, curbs, gutters, sidewalks, driveways, and walkways. In addition, above-ground items such as fences, gates, site lighting, and traffic signs were removed. Demolition of the Rustic Mall

buildings that contained a supermarket and other businesses was conducted by the Rustic Mall property owners during the course of remedial construction. The demolition and removal of above-ground portions of the buildings was completed entirely without EPA involvement. Once buildings were demolished to the slab, foundation and slab removal was conducted by SES as excavations progressed.

Photo 3-1 - Pavement Removal



3.5 Monitoring Well Abandonment

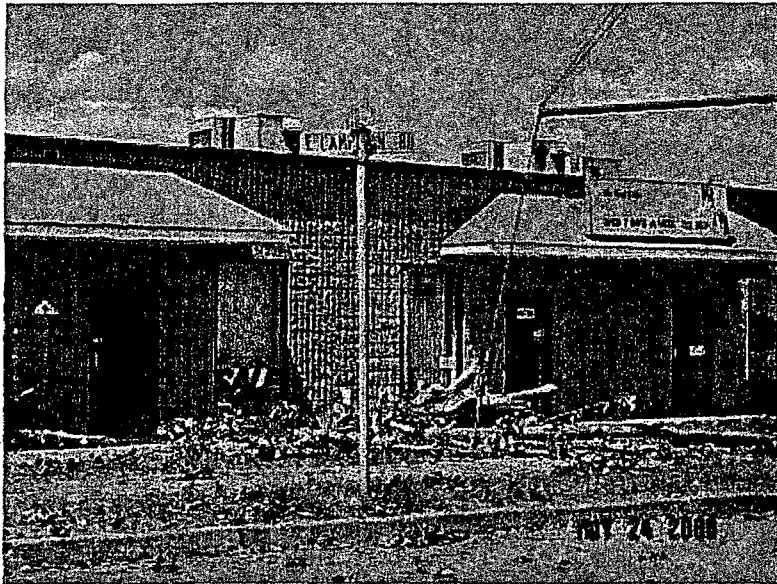
Existing monitoring well MW-120S was indicated on the Contract Drawings to be abandoned prior to beginning excavation. Well abandonment included the removal of all well construction materials, excluding the filter pack. Abandoned well was grouted from the bottom to ground surface. The contractor submitted all applicable permits, well abandonment record, and licenses required to perform work. Existing monitoring wells MW-111S, MW-111I, MW-111D, and MW-122S were located in either excavation slope areas or excavations that are shallow enough that wells were not compromised by excavating around it. These monitoring wells were protected during construction and remained in place for future groundwater monitoring.

In addition, a shallow well was discovered during excavation in the north area. The well was most likely part of the plant process. A well search was completed and the well was abandoned by a NJ-licensed driller.

3.6 Site Clearing

Clearing and grubbing was conducted as needed for the remedial construction. Stumps from grubbing operations were decontaminated and disposed of as construction and demolition debris.

Photo 3-2 - Site Clearing



3.7 Excavation

The primary objective of the project was the removal and disposal of contaminated soil within Rustic Mall that may pose risks to human health and may continue to be a source of groundwater contamination. Excavation activities were initiated in August 2005 and were completed on November 2007.

The excavation was organized into four areas: South, Southwest, and two North Areas (North Area 1 and North Area 2). SES excavated to the limits in the South, Southwest, and North Areas of the Rustic Mall as shown on the contract drawings. Upon completion of excavations, SES inspected both the sidewall and the bottom of the excavated areas for visible sign of contamination. If contamination was suspected, the Contracting Officer was notified and SES proceeded as directed. A total of 177,846.16 tons of soil was excavated and transported off site for disposal.

Excavation was completed in phases throughout the Rustic Mall in order to minimize the impact to the businesses that were operating at the time. The sequence of the excavation was as follows: North Area 2, Southwest Area, North Area 1/Central Area, South Area. At the beginning of excavation in North Area 2, the building demolition was uncertain; therefore, the original limits of excavation were such that the building could remain if the owners did not demolish it. Excavation limits in North Area 2 and the South Area were changed during the design as the building footprint became available for investigation and design.

As discussed in Section 2.3, contaminated areas were generally well defined by implementing the sampling and analysis program developed during the pre-design investigation phase of the project. However, during excavation in the southern end of the North Area, additional contamination was discovered in the south sidewall of the southernmost excavation grid, in an area that was underneath the main Rustic Mall

building. Historical aerial photographs were consulted, which suggested that the additional contamination found might be part of a canal-like feature between the North and Southwest Areas. This area became known as the Canal Area. Additional investigation was conducted along the center of the canal feature to delineate it prior to excavation, and the excavation design was revised accordingly. During excavation in this area, additional evidence of visible contamination was found east of the Canal Area, between the North and South Areas, which had not previously been the subject of the pre-design investigation. This area, which became known as the Central Area, was excavated as secondary excavation per the contract specifications. SES removed visible signs of contamination in the Central Area in 4-ft deep segments, guided by the Contracting Officer oversight, and verified contaminant removal by post-excavation sampling.

SES utilized PC-400/Cat-345, Komatsu PC-300, and PC-200 excavators to excavate the contaminated materials. Material excavated from shallow excavation areas was placed in dump trucks and transported to the established stockpile area located within Lagoon A.

Excavated contaminated material was segregated into three distinct stockpiles corresponding to the waste disposal type: thermal treatment and disposal, Subtitle C, or Subtitle D disposal. To avoid cross contamination from one stockpile to another, SES designated an excavator for each stockpile to maintain and out-load the contaminated soil. Stockpiled materials were loaded into trucks for transportation to treatment/disposal facilities. Trucks transporting excavated material to the Subtitle C and thermal treatment facilities were required to be lined, and all trucks were tarped and decontaminated (tire wash) prior to leaving the site.

Perimeter dewatering system was not necessary during the Rustic Mall remediation since the excavations were relatively shallow. Perched water encountered during the excavation as well as surface runoff that accumulated within the excavation areas was pumped out as needed and treated at the on-site wastewater treatment plant prior to discharge.

Photo 3-3 - Excavation Operations

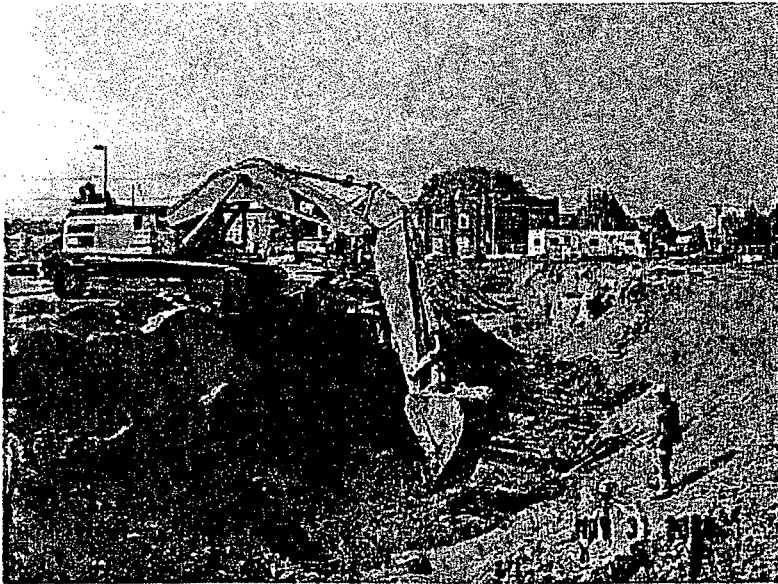


Photo 3-4 - Excavation and Loading to Stockpiles

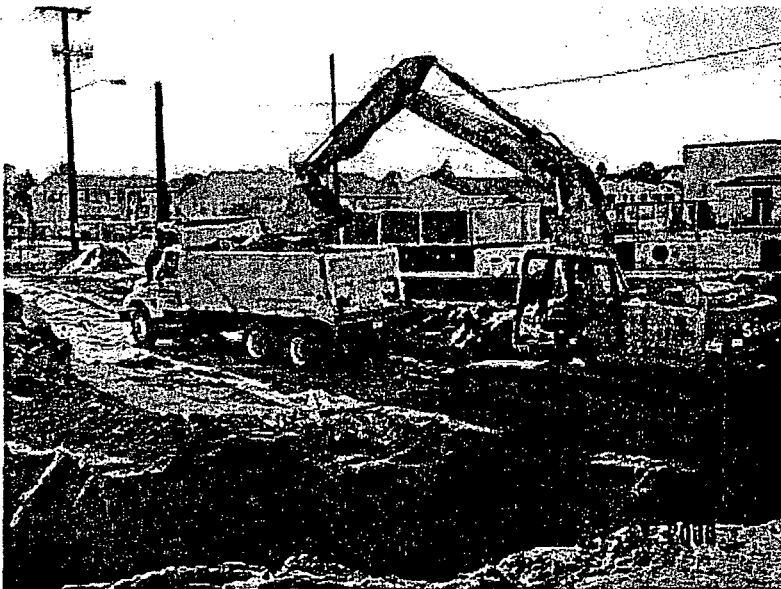


Photo 3-5 - Dewatering



3.8 Odor Control

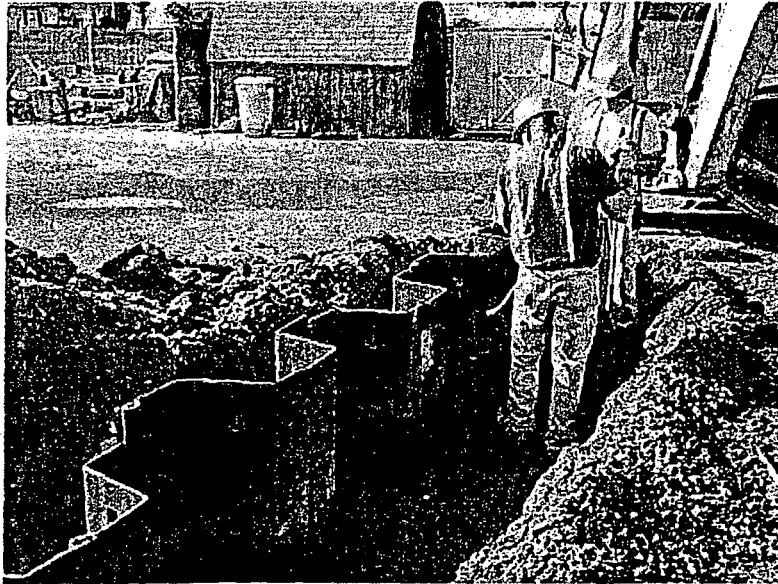
Ground treatment methods that were determined to be effective during the Lagoon B remediation were utilized to control odor. This method consisted of placing plastic sheeting directly over excavation areas and stockpiles.

3.9 Excavation Support System

Depending on the depth of the excavation, sheeting, soldier pile and lagging, or sloping was utilized to provide excavation support to existing structures. CDM designed all excavation support systems. There were no new soldier piles installed during the OU3 construction. However, the existing soldier piles installed during the Lagoon A remediation were reused as a support system for the adjacent Rustic Mall excavation. Re-use of the existing soldier piles required installation of lagging, walers, and tiebacks during the Rustic Mall excavation. New sheeting was installed along the south limits of the South Area, along East Camplain Rd. All sheeting, soldier pile and lagging were installed by Linde-Griffith Construction Co., of Newark, NJ. An ICE 4500 vibratory hammer rigged to a Manitowoc 3000W 65-ton crane and a Bower BG18 drill rig was utilized to install the sheeting and soldier piles respectively. The tiebacks were installed by using a Clem drill rig. The soldier piles and sheeting were cut off four feet bgs and abandoned in place. Lagging and walers were removed, and tiebacks were abandoned in place. The locations of the sheeting and soldier piles are shown on the as-built drawings included in Appendix C.

A 1:1 slope system was established for excavations deeper than four feet bgs. When excavation was directly adjacent to structures' foundations, a 1.5 horizontal to 1 vertical was established for excavations greater than ten feet bgs and a 1:1 slope system was established for excavations of ten feet bgs or less.

Photo 3-6 – Excavation Support System (Sheeting)



3.10 Backfilling

SES backfilled the excavated areas using clean imported backfill material from several sources including Tomkat Construction, Inc., Stavola Construction Materials, Maddox Materials, LLC, and Excavating Material & Equipment, Inc. (EME). Prior to delivery to the site, physical and chemical analyses were performed on every 5,000 CY lot of material to ensure that backfill materials met the project requirements and specifications. All backfill material placed at the site met NJDEP residential direct contact cleanup criteria.

Backfill material was placed directly in the excavation and spread in horizontal layers up to 8 inches thick utilizing bulldozers. Placed material was compacted by utilizing an SD-40D roller to a minimum of 95% of its maximum dry density by Standard Proctor (ASTM D-698). Hand compactors and/or vibratory plates were utilized to compact areas immediately adjacent to houses or other structures. Compaction and moisture content testing of the backfill material was performed by Craig Testing Laboratories, Inc. located in Mays Landing, New Jersey. Approximately 154,383.98 tons of common fill and 14,030.68 tons of Dense Graded Aggregate (DGA) were utilized to fill the OU3 excavation areas. The backfill quantity in tons is lower than the excavation quantity for several reasons. First, the excavation quantity includes slab and foundation debris. Second, there is a difference between pre-excavation and final grades due to removal of the buildings. The final grade is lower than the pre-excavation grade.

Photo 3-7 - Backfill Operations

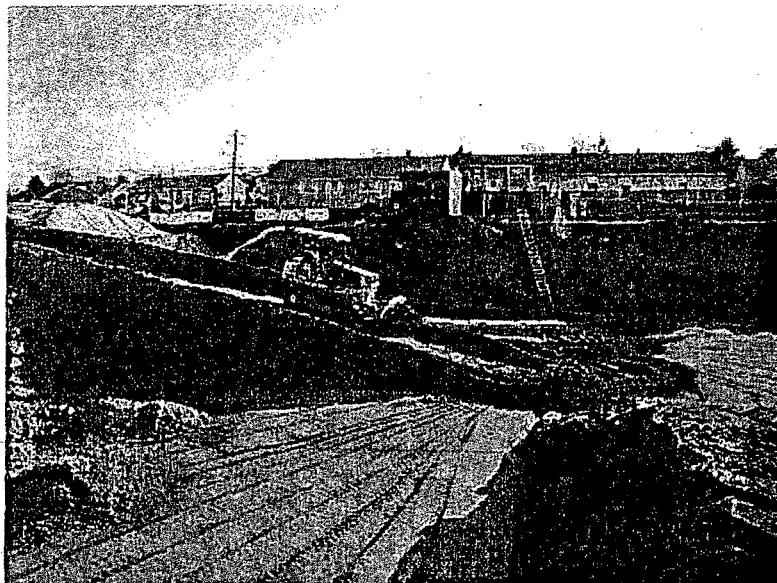
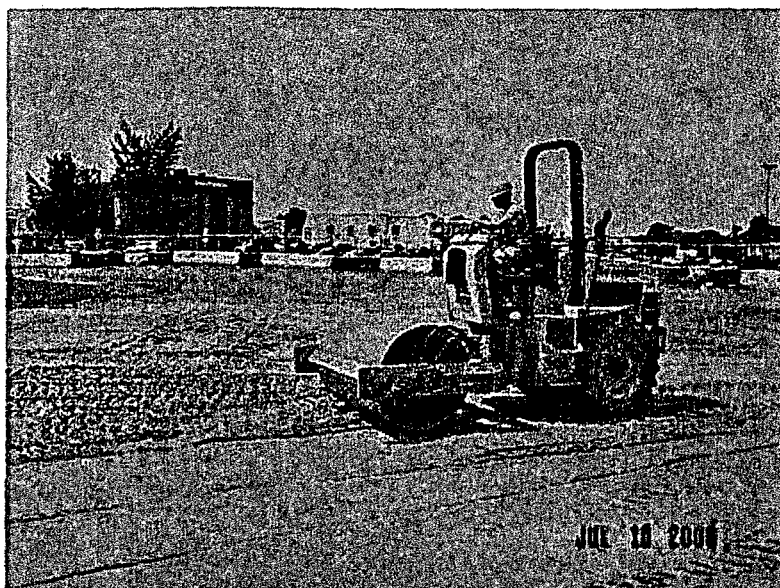


Photo 3-8 - Backfill Compaction Operations



3.11 Waste Disposal

EPA determined that soil was contaminated with RCRA listed (FO34) wastes which directed the selection of appropriate land disposal protocols. Excavated material was disposed of at one of three types of disposal facilities; thermal treatment and disposal, Subtitle C landfill, or Subtitle D landfill. Disposal was determined by the presence of creosote product and the degree of PAH contamination. Excavated material was segregated into stockpiles corresponding to the three different types of disposal. Excavated material was loaded into dump trucks and transported to stockpiles in Lagoon A and subsequently transported off site for treatment and disposal. Treatment

and disposal requirements for the hazardous wastes material encountered during the OU3 remediation are summarized in Tables 3-1, 3-2, and 3-3. Table 3-4 summarizes the quantities of material disposed of during the Rustic Mall remediation.

Material to be disposed of at Subtitle C and D facilities were transported to their respective facilities by utilizing 70,000-lb triaxle dump trucks. Material requiring thermal treatment and disposal was loaded into 80,000-lb dump trailers for transportation to the thermal treatment facility. Trucks transporting excavated material to the Subtitle C and thermal treatment facilities were required to be lined, and all trucks were tarped and decontaminated (tire wash) prior to leaving the site.

Photo 3-9 – Waste Hauler



3.11.1 Wastewater

Perched water and surface runoff encountered during the excavation activities and wastewater generated from equipment and personnel decontamination was treated at the on-site wastewater treatment plant prior to being discharged to the storm sewer system, and ultimately to the Millstone River. The plant operated in batch mode during the OU3 Rustic Mall construction. The system consisted of an oil-water separator, followed by an influent equalization tank, followed by bag filters, granular activated carbon, and effluent storage tanks. Due to the presence of suspended solids in the surface runoff that was removed from the excavation areas, a high molecular-weight cationic polymer was used to coagulate and remove fine silt along with metals adsorbed to particle surfaces. The plant was operated and maintained in accordance with the Federal Creosote Superfund Site Wastewater Treatment Plant Operations and Maintenance Manual (SES 2001). Plant design rationale is also included in the manual. SES obtained a permit in EPA's name (Permit No. 01-0568) from NJDEP to construct and operate the plant. A copy of the permit is included in Appendix A.

Because the treated water was ultimately discharged to the Millstone River, compliance with the New Jersey Pollutant Discharge Elimination System (NJPDES) Master General Petroleum Products Cleanup (GPPC) was required. Surface Water Master General Permit (No. NJ0102709) and Discharge Authorization Permit (No. NJG0139050) obtained during the Lagoon B remediation were renewed. Copies of the renewed permits are included in Appendix A, and the Treatment Works Approval is found in Appendix B. Table 3-5 below summarizes the wastewater treatment plant effluent permit discharge limits. Table 3-6 is a summary of the wastewater treatment plant sampling requirements. Approximately 628,544 gallons of wastewater was treated and discharged during the OU3 remedial activities.

There were two non-compliances reported during the OU3 remediation.

- Non-compliance on September 27, 2006

Copper was detected at 101 ppb which was greater than the daily maximum permit limit and monthly average permit limit. Note that the sampling frequency was reduced to one per month starting June 7, 2005. This non-compliance was considered an anomaly. A second metals analysis of the effluent sample was ordered to rule out laboratory error, and the system was run in recirculation mode where no free copper was detected in the system. It was suspected the cause of the non-compliance was channeling in activated carbon column in conjunction with unusually high-TSS influent from dewatering a new phase of excavation. As a corrective action, backwash of activated carbon units was performed at the beginning of every operating day, regardless of pressure differential. A high molecular-weight cationic polymer was used to coagulate and remove fine silt along with metals adsorbed to particle surfaces.

- Non-compliance on December 20, 2006

Copper was detected at 53 ppb which was higher than the monthly average permit limit. Note that the sampling frequency was changed to one per month starting June 7, 2005. This non-compliance occurred due to cold overnight temperature resulting in cold wastewater where polymer efficacy was greatly diminished. A polymer specialist was contacted to evaluate other polymers designed specifically for copper sequestration and suitable for use in cold wastewater.

3.12 Site Restoration

Due to the unresolved nature of re-development of the Rustic Mall property at the time of site restoration, surface restoration of the disturbed area within the Rustic Mall property limits consisted of placing a dense-graded aggregate layer in areas previously paved or occupied by buildings. This surface covers the majority of the disturbed area in Rustic Mall.

In a portion of the Southwest Area, the disturbed area extended outside the property owned by Rustic Mall into the Borough of Manville right of way. Property features impacted by construction activities in this area were restored and/or replaced in kind by the contractor. Site restoration consisted of in kind replacement of items such as pavement, concrete slabs, curb, sidewalk, concrete traffic island, fencing, inlets, and

manholes that were disturbed or removed during construction as shown on the restoration plans included in the contract drawings. Utility service laterals extending to businesses that remained in operation, which were impacted by the excavation were also restored. Utility work was performed by the respective utility companies or their authorized representatives, except for water, sanitary, and storm sewer work, which was performed by SES. The restoration plans also include restoring the area currently occupied by the Support Zone and WWTP. The asphalt pavement in the portion of this area that lies outside of the excavation limits was milled and replaced by dense graded aggregate. Grading in this area has been altered to improve the drainage from the existing condition. In addition, as requested by the Borough of Manville, the entrance to the alleyway in the South Area was not restored to the previous condition. Instead, a continuous 6-inch high curb was placed along the north curb line of East Camplain Rd. to eliminate the entrance at this location.

Photo 3-11 - Concrete Island Restoration

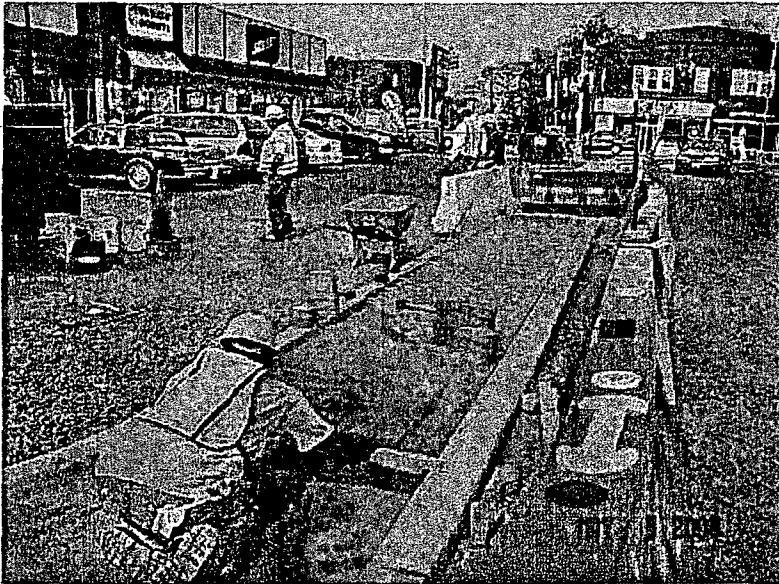
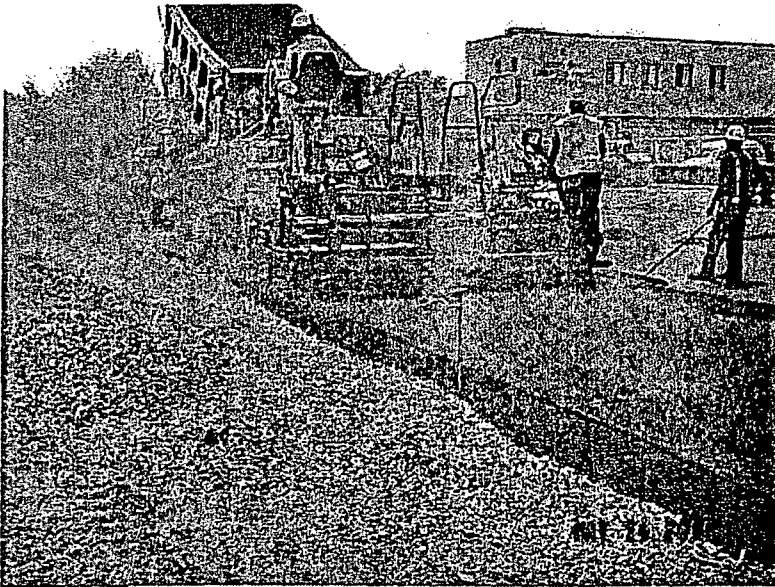


Photo 3-12 - Pavement Restoration



3.13 As-Built Survey

Final as-built survey depicts the post-remediation conditions and final topography of each remediated property. Excavation as-built survey was also performed and excavation cross sections were prepared. Copies of as-built drawings are included in Appendix C. Final survey was performed by Kennon Surveying Services, Inc. of Warren, New Jersey, a New Jersey licensed land surveyor.

3.14 Soil Sampling and Analysis

Soil sampling and analysis was performed as described in the USACE-approved Sampling and Analysis Plan (SAP). Samples were analyzed for the primary site contaminants, PAHs, by SW-846 method 8270C.

3.14.1 Post Excavation Sampling

Upon completion of excavation up to the limits shown on the contract drawings, post excavation sampling was performed in accordance with the site specific SAP.

Post excavation samples were collected in locations shown in the contract drawings. The locations were established in compliance with NJDEP post excavation sampling criteria. For primary excavations, post excavation samples were collected at a rate of one sample for every 900 feet² of bottom area and one sidewall sample for every 30 linear feet of sidewall excavation. The collected post excavation samples were analyzed for PAHs. Post excavation samples were grouped into two categories as described below:

Documentation Samples

Documentation samples were collected in areas where excavation depth was greater than 14 feet bgs. These samples were collected at the maximum excavation limit. These samples were collected to document the location of any remaining contamination.

Secondary excavation was not performed based upon the analytical results of the documentation samples.

Confirmation samples

Confirmation samples were collected by SES in areas where excavation depth was 14 feet or less, in cases where the pre-design investigation didn't meet the required coverage for post-excavation bottom and sidewall samples. Confirmation sampling results were compared to the ACGs. If results showed that contamination remained, secondary excavation was performed according to project specifications and as directed by the Contracting Officer. Secondary excavation was defined as excavation beyond the excavation limits shown of the contract drawings, was conducted in 2-foot increments (horizontal and vertical) up to a maximum depth of 14 feet or as directed by the Contracting Officer. Post excavation sampling requirements for secondary excavations were as follows:

- One sample from the excavation bottom for every 900 feet²
- For every 4 vertical feet of secondary excavation, one sample for every 30 linear feet of sidewall excavation

Property closure reports are included in Appendix D. These reports contain property drawings which show the locations of the post excavation samples.

3.14.2 Backfill Material Sampling

Excavated areas were backfilled with clean soil from off-site sources. Representative samples of backfill materials were collected and analyzed at a frequency of one sample for every 5,000 CY of imported material. Only material that met NJDEP residential direct contact soil cleanup criteria (NJAC 7:26D) and the project specifications was utilized.

3.15 Ambient Air Monitoring

SES amended the approved Ambient Air Monitoring Plan (AAMP) describing the methods and procedures utilized to determine the air contaminants that may be released during remediation activities. The contaminants of concern included; VOCs, PAHs, and respirable particulates. In addition, a meteorological system, monitoring wind speed and direction, ambient temperature, atmospheric pressure, solar radiation, and precipitation was installed within the support zone.

Ambient air monitoring was performed by using real time instrumentation and samples were collected for analysis in accordance with EPA T0-13, T0-14, and PM-10 methods for PAHs, VOCs, and respirable particulates, respectively. Tables 3-7 and 3-8 summarize the perimeter air monitoring/sampling requirements for the Rustic Mall remediation.

Table 3-9 summarizes air monitoring exceedances that occurred during the site operations. The exceedances are listed as real-time air monitoring issues and air sampling issues. Elevated dust levels were recorded due to railroad maintenance activities. In addition, elevated readings were recorded due to a significant rainstorm. These events were documented. Incorrect interpretation of lab data in the field caused

the elevated air sampling results. Corrective actions were taken to avoid future data issues.

Section 4

Chronology of Events

Figure 4-1 summarizes the events that occurred during the Canal B Remedial Action.

Section 5

Performance Standards and Construction Quality Control

SES implemented a Quality Control (QC) program that incorporated the requirements of the project specifications and the approved site specific Contractor Quality Control Plan (CQCP). USACE provided Quality Assurance (QA) through the use of on site personnel to monitor project performance.

5.1 Project QA/QC Organization

Rustic Mall remedial action was supported by both field and office personnel. SES on site personnel consisted of Project Manager, Site Contractor Quality Control Manager, Site Safety and Health Officer, Project Engineer, and Project Superintendent. Overall project organizational chart is presented in Figure 5-1.

5.2 Construction QA/QC Implementation

A three-phase quality check was conducted for each definable feature of the work. The checks include preparatory, initial, and follow-up inspections. The preparatory inspection was performed after all required plans, documents, and materials were approved and copies were at the work site. The initial inspection was conducted after the completion of a representative sample of the work. The follow-up inspection consisted of daily quality control activities to ensure compliance with contract requirements until the completion of a particular definable feature of work.

5.3 Sampling and Analysis

A QA/QC system was implemented to ensure the accuracy, completeness, and precision of sampling data. Collected field QA/QC samples included field duplicates, matrix spike, matrix spike duplicates, and QA split samples.

5.3.1 Field Duplicates

Field duplicates are defined as a homogenized sample collected from a unique location that was divided into two separate sets of containers and submitted to the laboratory as two unique samples for analysis. Field duplicates were collected at a frequency of one duplicate for every 10 samples.

5.3.2 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSD samples were collected to document the precision and consistency of the laboratory equipment. MS/MSD samples were collected at a rate of one sample for every 10 field samples.

5.3.3 USACE QA Sampling

USACE QA split samples were collected as follows. A sample was collected then divided into two distinct samples. The duplicate pairs were tracked so that the results

could be compared. One of the samples was submitted to the subcontracted project laboratory. The other sample was submitted to USACE Environmental Chemistry Branch laboratory located in Omaha. The results of the two samples were compared for analytical method accuracy. USACE QA split samples were collected and analyzed at a frequency of one for every 10 samples.

5.3.4 Data Review/Validation

Data were assessed by the on site QC manager. The QC manager reviewed field results for compliance with established QC criteria. Field measurements were assessed using daily instrument calibration, calibration check, and blank analysis.

Laboratory analytical data were subjected to review to assess data precision, completeness and sensitivity.

5.3.5 Sample Numbering

Sample numbering scheme was developed to identify each sample designated for laboratory analysis. The purpose of this numbering scheme was to provide a tracking system for retrieval of field and analytical data of each sample. A summary of the sample numbering scheme is presented in Section 4 of the previously approved Sampling and Analysis Plan submitted by SES.

5.4 In-Place Soil Moisture and Density Testing

Soil moisture and density testing of in-place backfill was performed as described in Section 3.10. Field testing was performed by subcontractor personnel using a Troxler Nuclear Moisture Density Gauge.

5.5 Health and Safety

As required by the Site Safety and Health Plan (SSHP), daily tailgate meetings were conducted. Special health and safety considerations were discussed as they pertained to the daily activities. Weekly meetings were also held to review issues related to any new activities. SES's Health and Safety Director, Paul J. Hitcho, CIH, also conducted periodic Health and Safety inspections during the course of the project. A copy of the April 14, 2005 inspection report is included in Appendix E. USACE also conducted periodic health and safety audits during construction activities. Copies of USACE health and safety audits are also included in Appendix E.

General site workers were required to be trained for Hazardous Waste Operations and Emergency Response in accordance with 29 CFR 1919.120, and excavation and trenching safety trained. Individuals involved with shipping of hazardous materials were required to receive the appropriate Department of Transportation (DOT) training. Most of the work was conducted in Level D PPE with a contingency for Level C upgrade for personnel in direct contact with the excavated material based on air monitoring results. Ambient air monitoring, in the form of real-time VOC and dust monitoring and high-volume particulate sampling and VOC sampling was also conducted within the vicinity of the excavation areas throughout the period of construction as discussed in Section 3.15.

Minor incidents but no injuries were reported during the course of the remedial action activities. On June 15, 2006, an operator was utilizing a PC 300 track hoe on top of the Subtitle C material stockpile within the Lagoon A property when a piece of asphalt fell from the bucket and came in contact with the polyvinyl chloride (PVC) electrical conduit running along side the stockpile boundary. The PVC conduit was broken and the wires were severed. Power was interrupted to the yard scale. EID was called to the site to perform repairs to the line. As corrective actions, the electrical conduit was made more visible by using high visibility orange paint, and an orange safety fence was put up on both sides of the conduit.

On June 16, 2006, an operator was operating an Ingersol Rand vibratory drum roller to compact lifts of common fill when the slope gave way under the roller. The roller slid sideways down the slope approximately seven feet at which time the roller tipped over on its side. The operator was immediately assisted by two co-workers who helped him from the roller. He was taken to a local medical center for observation but was released without injury. The roller was righted using cables and a backhoe. The instrument panel cover was bent during the upset but was re-attached. A Safety Stand Down Meeting was held to address "Lesson Learned" issues concerning the safe operation of equipment and to re-emphasize the Safe Plan of Action.

There was a slip and fall observed by Raymond Lo, USACE New York District, in the morning of March 7, 2007; the worker got up and was not hurt. It was recommended to talk about slip, trips, and falls during a morning tool box talk. The recommendation was instituted immediately.

On April 24, 2007, a worker with the crane crew for sheet piling removal was torch cutting two inch holes with short sleeve shirt. Due to the sparks coming from the torch cutting, it was recommended that he wear long sleeve shirt. The recommendation was instituted immediately.

All incident reports are provided in Appendix E.

5.5.1 Personnel Exposure Air Monitoring

Personnel exposure air monitoring was conducted during the Rustic Mall remediation. The collected samples were analyzed for PAHs and benzene-toluene-ethylbenzene and xylenes (BTEX) in accordance with NIOSH methods 1501 and 5506, respectively. The samples were also analyzed for respirable dust as indicated in Section 3.15. All samples collected during the Rustic Mall sampling events resulted in concentrations below OSHA threshold values.

5.5.2 Personnel Decontamination

Personnel decontamination was performed upon exiting the exclusion zone and at the end of each work day. A nontransparent enclosure was strategically located within the decontamination pad to allow field personnel exiting the exclusion zone to change into street clothes prior to entering the support zone.

5.5.3 Equipment Decontamination

All equipment exiting the exclusion zone was required to be decontaminated prior to entering the support zone or leaving the project site in accordance with the SSHP.

Section 6

Inspection and Certification

6.1 Inspections

In addition to the three-phase inspection described in Section 5.2, pre-final and final inspections were performed following the completion of the remedial construction. The purpose of these inspections was to ensure that all work was performed to the satisfaction of the EPA and USACE.

6.1.1 Pre-Final Inspection

Pre-final inspections were conducted upon the completion of the remedial activities at each work area. Representatives from all parties including EPA, USACE, and SES were present. During these pre-final inspections, punch lists documenting observed deficiencies were prepared. The contractor was required to correct all deficiencies prior to the final inspection. Appendix F contains the copies of individual property pre-final inspection reports documenting punch list items requiring corrective actions.

6.1.2 Final Inspection

Upon correction of all deficiencies and submittal of outstanding project document, representatives of EPA, USACE and SES conducted a Final inspection on March 19, 2008. Although minor punch list items were identified during the inspection relating to the elevation of a storm sewer grate and demobilization of the last trailer remaining on site, no outstanding issues concerning remediation were raised during the inspection, and the remediation of the Rustic Mall was considered complete.

On March 19, 2008, Rich Puvogel, EPA RPM and Drew Sites, NJDEP's representative inspected the site. Subsequent to the inspection, Mr. Puvogel issued a final inspection memorandum documenting the inspection. A copy of the memo is included in Appendix G.

Section 7

Operation and Maintenance

The Rustic Mall remediation was a permanent remedy. Therefore, long-term O&M was not required, except for maintenance of one small area of new sod. Immediately following establishment of the lawn area, its maintenance became the responsibility of the Rustic Mall.

7.1 Warranty

As required by the contract documents, SES was responsible for the sodded area for a 30-day period following establishment.

Section 8

Summary of Project Cost

Rustic Mall construction contract was executed as a cost-reimbursable contract. The work was completed under PRAC Contract Number W912DQ-04-D-0023, Task Order #0001, awarded through USACE Kansas City District.

8.1 Remedial Construction Cost

The OU3 Rustic Mall remedial action contract was incrementally funded. The initial Work Order (WO) included the North Area 2 remediation only, with an initial budget of \$8,783,705. Variations during the remedial effort prompted the WO budget to be increased to \$9,646,104. A separate WO was issued for the remainder of the OU3 Rustic Mall construction, including the Southwest Area, North Area 1/Central Area, and the South Area. This WO had an initial budget of \$5,752,823, which was incrementally increased to a final total of \$49,815,294. Thus the total budget for OU3 Rustic Mall was \$59,461,398. Total payment to SES for the Rustic Mall remedial action was \$56,276,218.62.

Section 9

Observations and Lessons Learned

The quantity of OU3 soil excavated exceeded the quantity estimate of the OU3 remedial design by 33%. The following provides observations of conditions that contributed to this increase during the remedial action. These observations may be used as lessons learned for application at other hazardous waste remediation sites.

The incremental nature of the soil sampling for the OU3 remedial design was necessitated and limited by the occupancy of retail tenants, and use of the mall by their suppliers and customers. The design sampling focused on delineating the limits of soil contaminated with creosote and PAHs above the ACGs. Five rounds of field sampling were conducted during the OU3 remedial design. Each round of design sampling was intended to fill data gaps of the previous round where excavation limits could not be established. The earlier rounds of design sampling were limited to parking lots and roadways of the mall. In later rounds, soil was sampled beneath sections of the mall building vacated by tenants who left in response to the mall revitalization plan.

In an effort to minimize the scope of successive sampling rounds, each round included contingency soil borings and samples which were drilled and analyzed depending on the results of adjoining samples. To ensure that sample holding times were not exceeded, the lab was directed to extract and hold certain samples. This "parent dependent" method was used rather than analyzing all samples. This prevented unnecessary sample analysis and saved on analytical costs. The "parent dependent" method controlled analytical costs and delineated much of the soil contamination.

The objective of each successive round of design sampling was to reduce data gaps. Excavations with limits established by design samples were designated primary excavations. Areas where the remedial action contractor was required to collect confirmatory post excavation side wall and bottom samples to establish the limit of excavations were designated secondary excavations. Quantity estimates in the remedial design were based on primary and secondary excavation boundaries with the understanding that additional quantities would be generated by excavating past the secondary excavation boundaries.

Secondary excavations resulted in the majority of the increase in quantity from design estimates to excavation completion, particularly in the south area of the mall near the former location of the creosote treatment plant. Design sampling was restricted by tenant occupancy of this section of mall at the final stage of the design efforts.

To a lesser extent, conversion of primary excavations to secondary excavations also contributed to the quantity increase. Primary excavation cut lines were established in design by a sampling layout consistent with NJDEP post excavation sampling requirements of one side wall sample every 30 linear feet and one bottom sample for every 900 square feet. Despite this design sampling frequency, and excavation to these clean sample points, it was sometimes found that visible creosote was detected in either

a sidewall or the bottom of the excavation between clean sample points. In such cases the primary excavation was changed to a secondary excavation, the visible creosote was excavated, and confirmatory samples were taken in a biased location where the visible creosote was removed.

Movement of creosote waste, either prior to or during mall development, also contributed to additional quantities of waste generated above the design estimate. During design, locations of subsurface utilities were marked. Drilling in these locations was prohibited to ensure the safety of the drilling/sampling crew and protect the integrity of the utilities and the service they provided to the community. Upon excavation it was apparent that areas where design sampling was prohibited contained creosote waste i.e. trenches used for installation of storm sewer piping was backfilled with visible creosote waste.

In summary, the sporadic locations and varying concentrations of the original waste deposition, the mobile nature of the waste upon its initial release and its tendency to migrate through the soil unevenly through subsurface preferential pathways, the disturbance and movement of waste after its initial deposit, and limitations on design sample locations by the shopping mall activities made it difficult to detect data trends that are useful in determining the extent of contamination. These conditions identified above contributed to the increase in excavation quantities above design estimates.

Section 10

Contact Information

Table 10-1 summarizes the key project personnel contacts.

Section 11

References

CDM. 2003. Federal Creosote Superfund Site OU3 Rustic Mall. Investigation Results. July.

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CDM. 2005b. Federal Creosote Superfund Site OU3 Rustic Mall. Waste Characterization South/Southwest Area. November.

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Stanford, Scott D. 1992. Surficial Geology of the Bound Brook Quadrangle, Somerset and Middlesex Counties, New Jersey; Department of Environmental Protection and Energy, Division of Science and Research, New Jersey Geological Survey; Open File Map No. 4

SES. 2001. Federal Creosote Superfund Site Wastewater Treatment Plant Operations & Maintenance Manual. April.

Vecchioli, J. 1965. Directional Hydraulic Behavior of a Fractured-Shale Aquifer in New Jersey. International Symposium on Hydrology of Fractured Rocks, Dubrovnik, Yugoslavia. *Proceeding International Association Science Hydrology*, Pub 73. Vol. 1. Pp 318-325

Weston, Roy F. 1998 Technical Memorandum - Site Investigation, Federal Creosote Site, Manville, NJ. November 1998

TABLES

Table 2-1
OU3 Analytical Cleanup Goals

Chemical Parameter	Action Level (ppm)
Benzo(a)pyrene	0.66
Benzo(a)anthracene	0.9
Chrysene	90
Benzo(b)fluoranthene	0.9
Benzo(k)fluoranthene	9
Indeno(1,2,3-cd)pyrene	0.9
Dibenzo(a,h)anthracene	0.66

Table 3-1
OU3 Waste Categories

Waste Type, RCRA Designation	Waste Definition
Contaminated Soil, F034 based on contained-in policy	Soils with PAH concentrations exceeding the Analytical Cleanup Goals (ACGs)
Soil, Non-hazardous	Any soils with PAH concentrations that do not exceed the ACGs
Debris, Non-hazardous	<ul style="list-style-type: none"> ■ Concrete slabs from demolition of building foundation, foundation walls, and sidewalk ■ Sewer pipe from storm sewer demolition ■ Other building materials ■ Boulders ■ Tree stumps from grubbing operations.

Table 3-2
Universal Treatment Standards for F034 Waste

Regulated Hazardous Constituent		UTS for F034 Creosote Waste	10 Times UTS for F034 Contaminated Soil
Common Name	CAS No.	Concentration in mg/kg	Concentration in mg/kg
Acenaphthene	83-32-9	3.4	34
Anthracene	120-12-7	3.4	34
Benzo(a)anthracene	56-55-3	3.4	34
Benzo(b)fluoranthene	205-99-2	6.8	68
Benzo(k)fluoranthene	207-08-9	6.8	68
Benzo(a)pyrene	50-32-8	3.4	34
Chrysene	218-01-9	3.4	34
Dibenzo(a,h)anthracene	53-70-3	8.2	82
Fluorene	86-73-7	3.4	34
Indeno(1,2,3-c,d)pyrene	193-39-5	3.4	34
Naphthalene	91-20-3	5.6	56
Phenanthrene	85-01-8	5.6	56
Pyrene	129-00-0	8.2	82
Arsenic	7440-38-2	5.0 mg/l TCLP	NA
Chromium (Total)	7440-47-3	0.60 mg/l TCLP	NA

Table 3-3
LDR Treatment and Disposal Requirements

Waste Type, RCRA Designation	LDR Treatment Requirements	LDR Disposal Requirements
Contaminated Soil, F034 based on contained-in policy	<p>For soil with PAH concentrations >10 times UTS:</p> <ul style="list-style-type: none"> ■ Achieve a 90% reduction in PAH concentrations, or ■ Reduce PAH concentrations to less than 10 times the UTS. 	<p>Dispose of in Subtitle D landfill or equivalent after treatment.</p> <p>For soil with PAH concentrations <10 times UTS: Dispose in Subtitle C landfill or equivalent without treatment.</p>

Table 3-4
OU3 Material Disposal Summary

Facility	Address	Permit No.	Facility Type	Quantity (Tons)
Bennett Environmental Inc.	80 Rue Dez Melezes St. Ambrose, Quebec, Canada G7P2N4	7610-02-01-0603816	Thermal Treatment and Disposal	30,265.66
			Subtitle C	1,579.18
Kimball Facility (Clean Harbors)	2247 South Highway 71, Kimball, NE 69145	NED 981723513	Thermal Treatment and Disposal	29,211.29
Horizon Facility (Biogenie)	120 Route 155 Grandes-Piles, Quebec, Canada G0X 1H0	NRV 000078964	Subtitle C	18,248.59
Allied Waste Facility (Epic)	County Road 33 Mauk, GA 31058	133-033D	Subtitle D	11,789.65
Conestoga Landfill (Earthwatch)	420 Quarry Rd Morgantown, PA 19543	101509	Subtitle C	41,192.98
			Subtitle D	45,556.73

Table 3-5
OU3 Wastewater Treatment Plant Effluent Permit Requirements

Parameter	Effluent Discharge Limits	
	Monthly Average	Daily Maximum
TSS	Report ppm	40 ppm
TPH	10 ppm	15 ppm
TOC	Report ppm	20 ppm
Total Cr	50 ppb	100 ppb
Total Cu	50 ppb	100 ppb
Total Ni	72 ppb	144 ppb
Total Pb	37 ppb	79 ppb
Fluoranthene	25 ppb	68 ppb
Fluorene	22 ppb	59 ppb
Phenanthrene	22 ppb	59 ppb
Pyrene	25 ppb	67 ppb
Benzo(a)anthracene	Report ppb	10 ppb
Naphthalene	22 ppb	59 ppb
Benzene	Report ppb	7 ppb
Tetrachloroethylene	Report ppb	16 ppb
TBA	Report ppb	Report ppb
2,4- Dimethylphenol	18 ppb	36 ppb
Phenol	Report ppb	26 ppb
MTBE (influent)	Report ppb	Report ppb
MTBE (effluent)	Report ppb	70 ppb
MTBE % Removal	>85%	NA
Effluent Flow	Report GPD	Report GPD
Parameter	Minimum	Maximum
pH	6.0 s.u.	9.0 s.u.

Table 3-6
OU3 Wastewater Treatment Plant Sampling Requirements

Parameter	Function	Frequency	Analytical Method	Container	Preservatives
Flow	O&M	Every other hour	SES SOP	NA	NA
pH	O&M	Per shift	EPA 150.1	8 OZ Jar	Analyze immediately
pH	Permit	Twice a week*	EPA 150.1	125 ml HDPE	Cool 4 °C
TSS	Permit	Twice a week*	EPA 160.2	500 ml HDPE	Cool 4 °C
TPH	Permit	Twice a week*	QA-025	1 liter Amber	pH<2 HCl Cool 4 °C
TPH	O&M	Twice a week*	Hach 10052	100 ml Poly	Analyze immediately
TOC	Permit	Twice a week*	EPA 415.1	60 ml HDPE	pH<2 HCl Cool 4 °C
Total Cr	Permit	Twice a week*	EPA 200.7	500 ml HDPE	pH<2 HNO ₃
Total Cr	O&M	Twice a week*	Hach 8024	100 ml Poly	Analyze immediately
Total Cu	Permit	Twice a week*	EPA 200.7	500 ml HDPE	pH<2 HNO ₃
Total Cu	O&M	Twice a week*	Hach 8143	100 ml Poly	Analyze immediately
Total Ni	Permit	Twice a week*	EPA 200.7	500 ml HDPE	pH<2 HNO ₃
Total Ni	O&M	Twice a week*	Hach 8150	100 ml Poly	Analyze immediately
Total Pb	Permit	Twice a week*	EPA 200.7	500 ml HDPE	pH<2 HNO ₃
Total Pb	O&M	Twice a week*	Hach 8317	100 ml Poly	Analyze immediately
SVOC	Permit	Twice a week*	EPA 625	1 liter Glass	Cool 4 °C
MTBE (influent)	Permit	Twice a week*	EPA 624	40 ml Glass	HCl
MTBE (effluent)	Permit	Twice a week*	EPA 624	40 ml Glass	HCl
Benzene	Permit	Twice a week*	EPA 624	40 ml Glass	HCl
TCE	Permit	Twice a week*	EPA 624	40 ml Glass	HCl
TBA	Permit	Twice a week*	EPA 624	40 ml Glass	HCl
2,4-Dimethylphenol	Permit	Twice a week*	EPA 625	1 liter Glass	Cool 4 °C
Phenol	Permit	Twice a week*	EPA 420.1	1 liter	pH<2 H ₂ SO ₄ Cool 4 °C
Phenol	O&M	Twice a week*	Hach 8047	100 ml Poly	Analyze immediately

* Sampling frequency changed to once a month as of June 7, 2005.

Table 3-7
OU3 Respirable Dust Monitoring Requirements

Parameters	Action Level ¹	Frequency ^{2,3} per location	Analytical Method	Action Required
Background				
Real Time (PM-10) ²		Continuous with 15-minute averages	Real Time	
High Volume (PM-10) ³		2 days per month (1 workday + 1 weekend day) 1 day - changed conditions	PM-10	Coinciding with high volume sampling in resident areas.
Predominate Airborne Pathway - Each Targeted Residential Property or Perimeter Station Location During Excavation Activities				
Real Time (PM-10) ²	150 µg/m ³ ¹	Continuous with 15-minute averages	Real Time	Investigate to determine appropriate corrective action, which may include increasing dust control activities, checking and repairing instrumentation, or stopping work. The Contracting Officer's representative will be notified of all corrective action.
High Volume (PM-10) ³	150 µg/m ³	2 days per month (1 workday + 1 weekend day) 1 day - changed conditions	PM-10	Evaluate and modify, as needed, real time action levels, dust control protocols, and corrective action requirements.
¹ Concentrations above background. ² Frequencies listed in the table are for active construction periods. ³ Monitoring during non-work hours (nights and weekends) will be required.				

501960

Table 3-8
OU3 VOCs and PAHs Air Monitoring Requirements

Parameters	Action Level ¹ ppb	Frequency ^{2,3} per location	Analytical Method	Action Required
Background				
Total Volatile Organics		Full work shift and during high volume sampling events	Direct Reading	
PAHs and BTEX ³		2 days per month (1 workday + 1 weekend day) 1 day - changed conditions	EPA T0-13 (PAHs) EPA T0-14 (VOCs)	
Predominate Airborne Pathway - Each Targeted Property During Excavation Activities				
Total Volatile Organics	10,000 2,000 300	Instantaneous 15-minute 8-hours corresponding to peak site operations	Direct Reading Direct Reading Direct Reading	Stop work, notify CO, determine corrective action for vapor control, start work after CO acceptance. Stop work, notify CO, determine corrective action for vapor control, start work after CO acceptance. Evaluate and implement corrective action prior to the start of the next shift. Notify CO, start work after CO acceptance.
PAHs and BTEX ³	BTEX= OEL ⁴ /100 Naphthalene= OEL/100 PAHs ⁵ =CTPV ⁶ /100	2 days per month (1 workday + 1 weekend day) 1 day - changed conditions	T0-13 (PAHs) T0-14 (VOCs)	
¹ Concentrations above background. ² Frequencies listed in the table are for active construction periods. ³ Monitoring during non-work hours (nights and weekends) is required. Objective for control of vapor during non-work hours is to maintain concentrations at or near background levels. ⁴ Occupational Exposure Limit (OEL) - Time Weighted Average. ⁵ Sum all detected PAHs, including Naphthalene. ⁶ Coal Tar Pitch Volatile Threshold Limit Value.				

501961

Table 3-9
OU3 Air Monitoring Exceedances

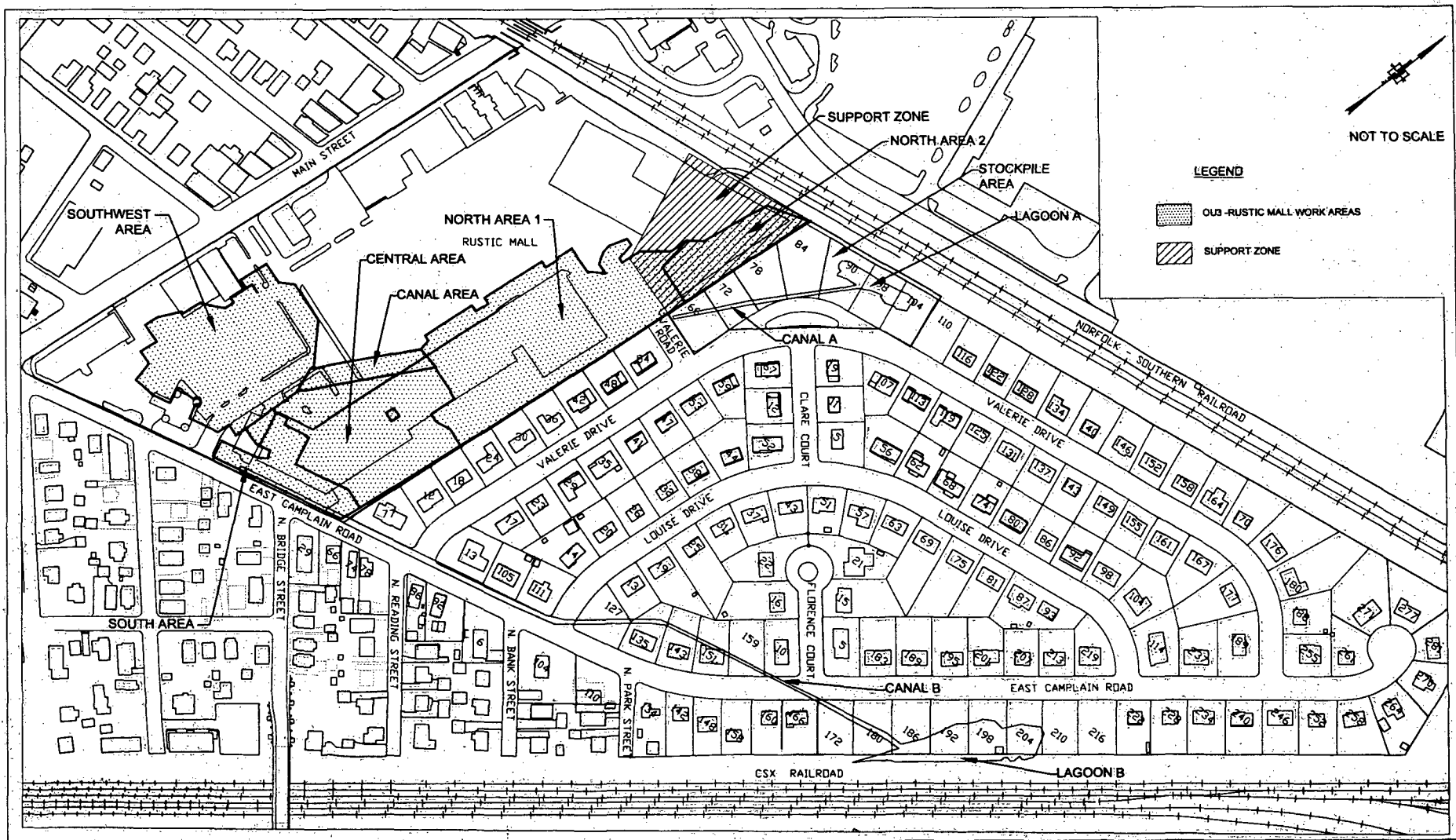
Item	Date	Instrument	Issue	Cause	Corrective Action
Real-Time Air Monitoring Issues					
1	March 2007	Dust Track Aerosol monitor	Elevated Dust levels recorded by instrument.	Railroad maintenance worker's activities created dust that moved across the perimeter fence line and over the site.	Field personnel documented the event in order to identify causes of potential exceedances.
2	June 2007	Dust Track Aerosol monitor and Multi RAE gas meter.	Elevated readings recorded by instruments.	A significant rainstorm overnight contributed to false readings of total dust and total VOCs.	Schedule the sampling event earlier in the quarter as to allow for an alternate date if rain is in the forecast.
Air Sampling Issues					
1	December 2006	PUF Sampler/ TO13	Analytical data show elevated semi VOC results.	Incorrect interpretation of lab data in the field. The up-wind station results were not subtracted from the results of the other stations.	Report was corrected and resubmitted.
2	June 2008	Respirable Particulate Sampler/ PM10	Analytical data show elevated respirable particulate concentration.	Incorrect flow rate calculations, data entry mistakes, and mislabeled timer charts.	Implement a secondary review of spreadsheets to avoid future data entry issues.

501962

Table 10-1
OU3 Key Project Contacts

Name	Title	Organization	Address
Rich Puvogel	Project Manager	EPA	290 Broadway New York, NY 10038
Todd Daniels	Project Manager	USACE KC	601 East 12 th Street Kansas City, MO 64106
Neal Kolb	Resident Engineer	USACE NY	26 Rustic Mall Manville, NJ 08835
Gordon McDonald Ed McClusick Kim Lickfield Joel Czachorowski	Project Manager	SES	2749 Lockport Road Niagara Fall, NY 14305
Michael Popper	Project Manager	CDM	Raritan Plaza I, Raritan Center, Edison, NJ 08818

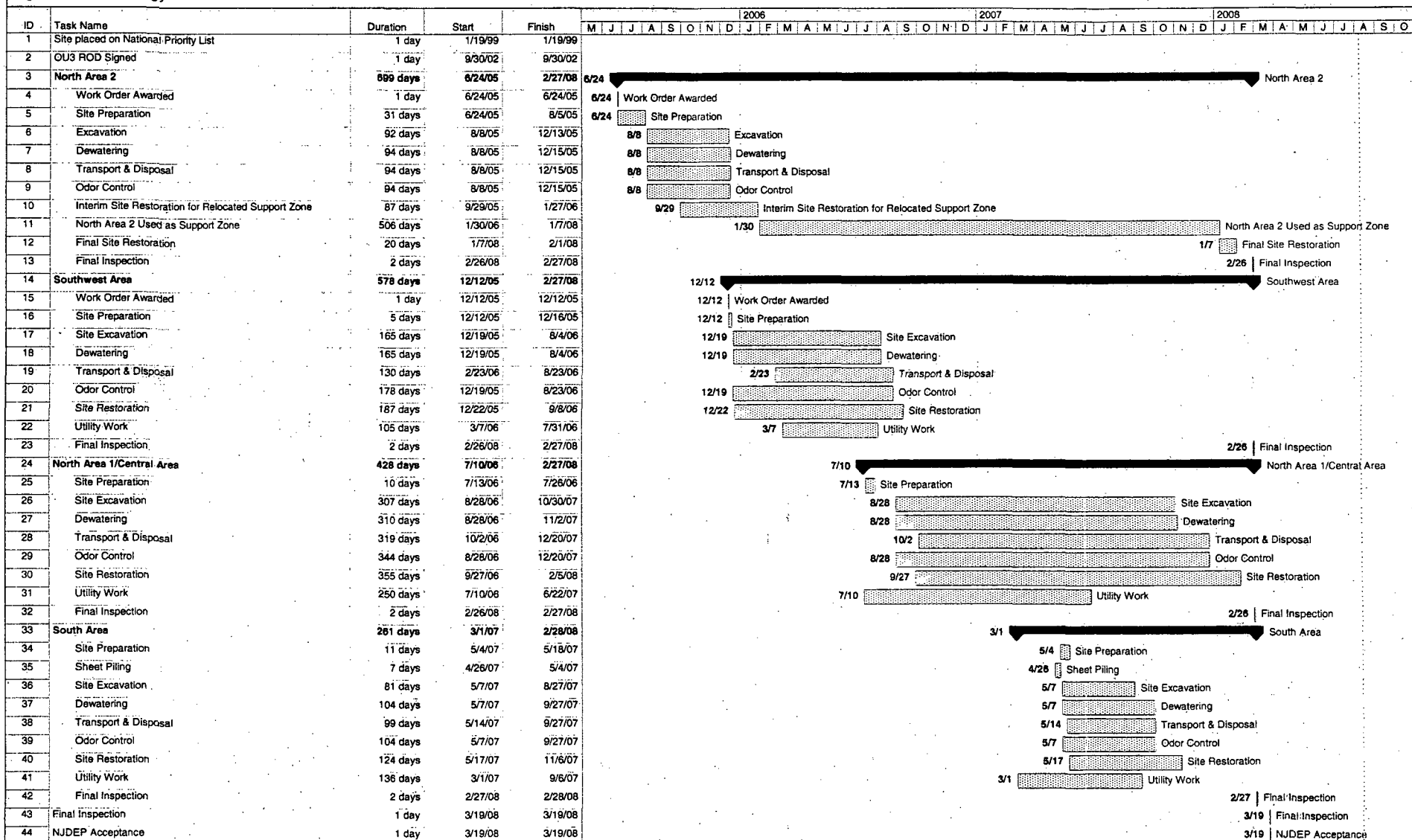
FIGURES



FEDERAL CREOSOTE SUPERFUND SITE
MANVILLE, NEW JERSEY

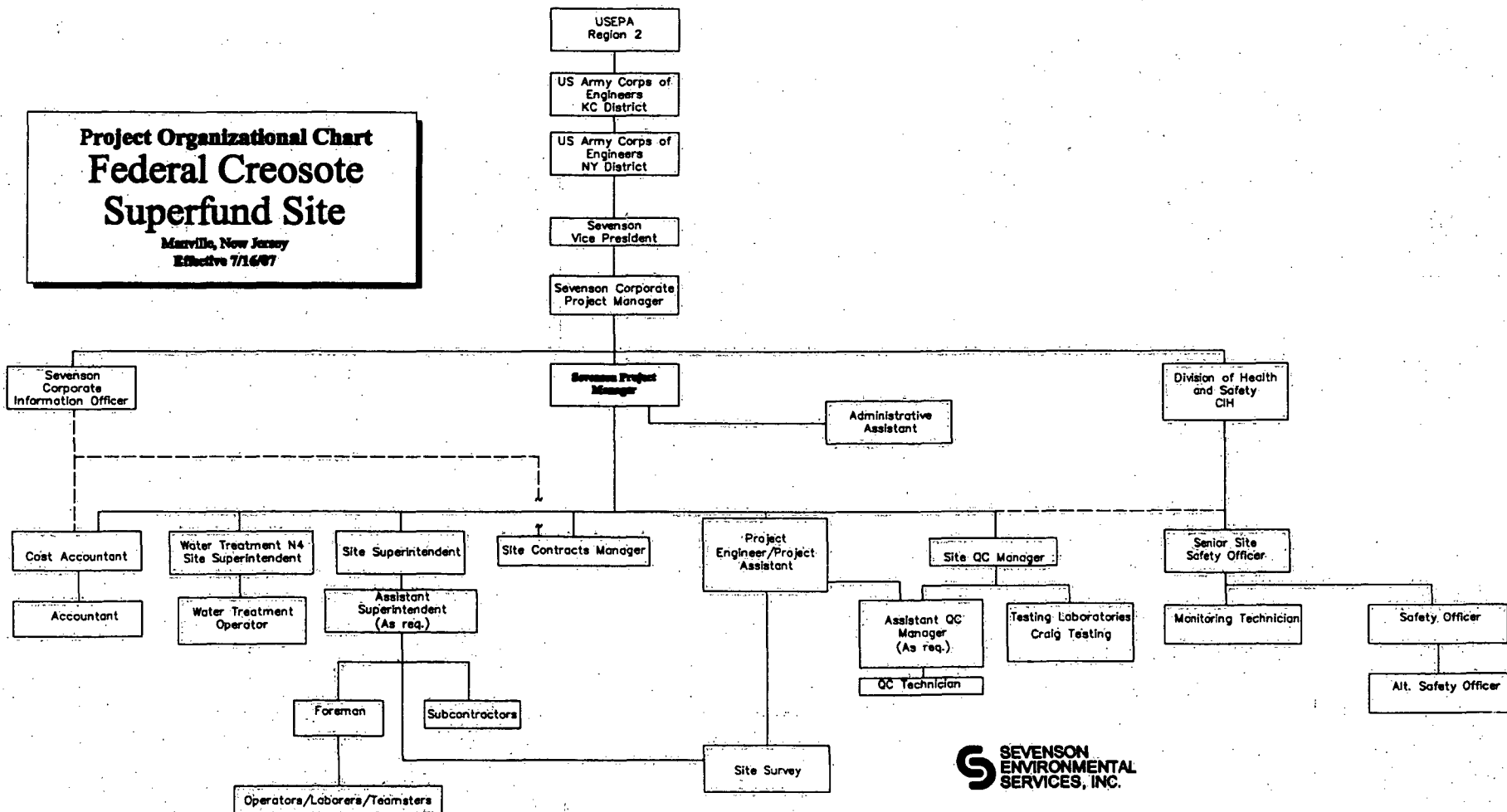
FIGURE 1-1
GENERAL SITE OVERVIEW
OU3-RUSTIC MALL

Figure 4-1 Chronology of Events

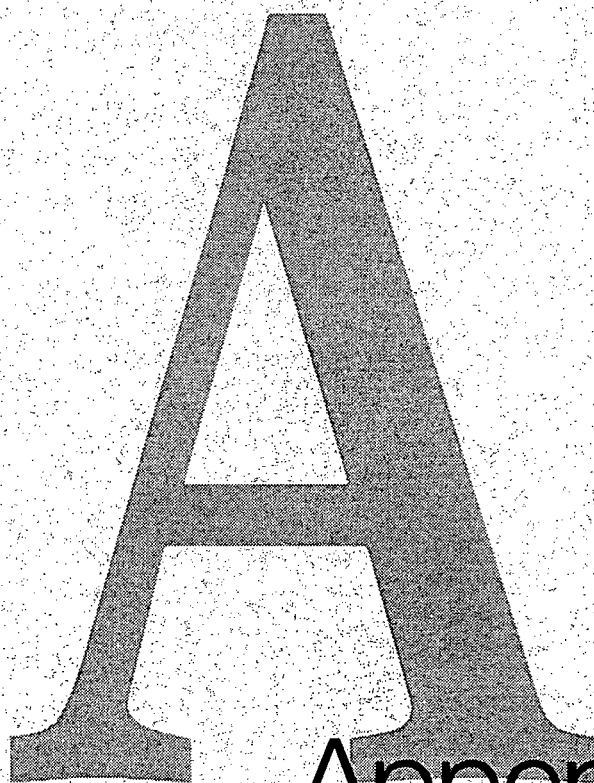


Project Organizational Chart Federal Creosote Superfund Site

Marville, New Jersey
Effective 7/16/97



**SEVENSON
ENVIRONMENTAL
SERVICES, INC.**



Appendix A



State of New Jersey

Department of Environmental Protection

Division of Water Quality

P.O. Box 029 Trenton, NJ 08625-0029

Phone: (609) 292-4860

Fax: (609) 984-7938

Richard J. Codey
Acting Governor

Bradley M. Campbell
Commissioner

**CERTIFIED MAIL
RETURN RECEIPT REQUESTED**

Rich Puvogel, Project Manager
USEPA
290 Broadway - 19th Flr
New York, NY 10278

NOV 07 2005

Re: Final Surface Water Minor Mod Permit Action to Extend the Expiration Date
Category: B4B-General Permit GW Petro Prod Cleanup
NJPDES Permit No. NJG0139050
Federal Creosote Superfund Site
Manville Boro, Somerset County

Dear Mr. Puvogel:

As you know you were issued an Individual NJPDES/DSW General Permit Authorization under the General Groundwater Petroleum product Cleanup (B4B) Permit. This individual General Permit Authorization allows for the discharge of treated groundwater through the discharge outfall DSN001D, as specified on your permit authorization page. The Department understands that you are requesting an extension to the expiration date of this authorization from May 31, 2005 to Nov. 30, 2008, through a letter dated May 11, 2005. The Department is hereby granting the extension.

The Department has evaluated available effluent data and flow values. Based on the fact that effluent flow values are of an intermittent nature, flow values are generally decreasing, and the permittee's consistent compliance record with effluent levels below the permit limits or at non-detectable levels, the Department has imposed a twice per month monitoring frequency. Please replace the existing authorization page and Part III in your permit with the enclosed attachment. All other terms and conditions of your existing permit are unchanged and remain in effect. The Department considers this extension of the expiration date to be a minor modification of the permit in accordance with N.J.A.C. 7:14A-16.2.

All monitoring shall be conducted in accordance with 1) the Department's "Field Sampling Procedures Manual" applicable at the time of sampling (N.J.A.C. 7:14A-6.5(b) 4), and/or 2) the method approved by the Department in Part IV of the permit. The Field Sampling Procedures Manual is available through Maps and Publications Sales Office; Bureau of Revenue, PO Box 417, Trenton, New Jersey 08625, at (609) 777-1038.

If you have questions or comments regarding the final action, please contact Nazia Mughis-Sohrawardy at (609) 292-4860.

Sincerely,


Pilar Patterson, Chief

Bureau of Point Source Permitting Region 2

Enclosures

cc: Permit Distribution List, Masterfile #: 60255; PI #: 92460

New Jersey Department of Environmental Protection



Bureau of Point Source Permitting – Region 2
Division of Water Quality
PO Box 029
Trenton, NJ 08625-0029
(609) 292- 4860

AUTHORIZATION TO DISCHARGE
B4B –General Permit GW Petro Prod Cleanup

Facility Name: Federal Creosote Superfund Site

PI ID #: 92460

Facility Address:

172-216 E. Camplain Road
Manville, NJ 08835

NJPDES #: NJG0139050

SIC Code: 2491

Type of Activity: Surface Water GPA Mod

Owner:

USEPA
290 Broadway - 19TH FLR
New York, NY 10278

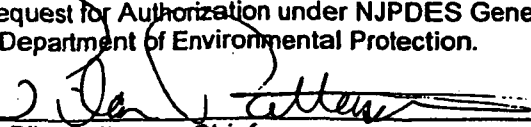
Operating Entity:

USEPA
290 Broadway – 19th Floor
New York, NY 10278

Authorization(s) Covered Under This Approval	Issuance Date	Effective Date	Expiration Date
Authorization under the B4B	11/25/2003	12/1/2003	5/31/2005
Minor Modification to B4B to extend expiration date	5/20/2005	6/1/2005	11/30/2008

Outfall Number	Latitude	Longitude	Receiving Stream	Classification
DSN 001D	40° 32' 28 "	74° 34' 42 "	Millstone River	FW2-NT

Your Request for Authorization under NJPDES General Permit No. NJ0102709 has been approved by the New Jersey Department of Environmental Protection.


Pilar Patterson, Chief
Bureau of Point Source Permitting – Region 2
Division of Water Quality
New Jersey Department of Environmental Protection

Date: 5/20/2005

PART III

LIMITS AND MONITORING REQUIREMENTS

MONITORED LOCATION:

001D Remediation effluent

RECEIVING STREAM:

Millstone River

STREAM CLASSIFICATION:

FW2-NT(C2)

DISCHARGE CATEGORY(IES):

B4B - General Permit GW Petro Prod
Cleanup

Location Description

The facility is authorized to discharge treated dewatered groundwater into the Millstone River, classified as FW2-NT(C2), via a storm sewer at Lat. 40d32m28s & Lon. 74d34m42s. Effluent sampling shall be performed after all treatment steps but prior to discharge. Influent sampling shall be performed prior to any treatment.

Surface Water DMR Reporting Requirements:

Submit a Monthly DMR: within twenty-five days after the end of every month beginning from the effective date of the permit (EDP).

Table III - A - 1: Surface Water DMR Limits and Monitoring Requirements

PHASE: Final

PHASE Start Date: 06/01/2005

PHASE End Date:

Parameter	Sample Point	Limit	Limit	Units	Limit	Limit	Limit	Units	Frequency	Sample Type
Flow, In Conduit or Thru Treatment Plant	Effluent Gross Value	REPORT Monthly Average	REPORT Daily Maximum	CPD	*****	*****	*****	*****	2/Month	Metered
January thru December	QL	***	***		***	***	***			
pH	Effluent Gross Value	*****	*****	*****	6.0 Monthly Minimum	*****	9.0 Monthly Maximum	SU	2/Month	Grab
January thru December	QL	***	***		***	***	***			
Solids, Total Suspended	Effluent Gross Value	*****	*****	*****	*****	REPORT Monthly Average	40 Daily Maximum	MG/L	2/Month	Grab
January thru December	QL	***	***		***	***	***			
Petroleum Hydrocarbons	Effluent Gross Value	*****	*****	*****	*****	10 Monthly Average	15 Daily Maximum	MG/L	2/Month	Grab
January thru December	QL	***	***		***	***	***			
Carbon, Tot Organic (TOC)	Effluent Gross Value	*****	*****	*****	*****	REPORT Monthly Average	20 Daily Maximum	MG/L	2/Month	Grab
January thru December	QL	***	***		***	***	***			
Chromium, Total (as Cr)	Effluent Gross Value	*****	*****	*****	*****	50 Monthly Average	100 Daily Maximum	UG/L	2/Month	Grab
January thru December	RQL	***	***		***	10	10			

Surface Water DMR Reporting Requirements:

Submit a Monthly DMR: within twenty-five days after the end of every month beginning from the effective date of the permit (EDP).

Table III - A - 1: Surface Water DMR Limits and Monitoring Requirements

PHASE: Final

PHASE Start Date: 06/01/2005

PHASE End Date:

Parameter	Sample Point	Limit	Limit	Units	Limit	Limit	Limit	Units	Frequency	Sample Type
Copper, Total (as Cu)	Effluent Gross Value	*****	*****	*****	*****	50 Monthly Average	100 Daily Maximum	UG/L	2/Month	Grab
	RQL	***	***		***	10	10			
January thru December										
Nickel, Total (as Ni)	Effluent Gross Value	*****	*****	*****	*****	72 Monthly Average	144 Daily Maximum	UG/L	2/Month	Grab
	RQL	***	***		***	10	10			
January thru December										
Lead, Total Recoverable	Effluent Gross Value	*****	*****	*****	*****	37 Monthly Average	79 Daily Maximum	UG/L	2/Month	Grab
	RQL	***	***		***	10	10			
January thru December										
Fluoranthene	Effluent Gross Value	*****	*****	*****	*****	25 Monthly Average	68 Daily Maximum	UG/L	2/Month	Grab
	RQL	***	***		***	10	10			
January thru December										
Fluorene	Effluent Gross Value	*****	*****	*****	*****	22 Monthly Average	59 Daily Maximum	UG/L	2/Month	Grab
	RQL	***	***		***	10	10			
January thru December										
Phenanthrene	Effluent Gross Value	*****	*****	*****	*****	22 Monthly Average	59 Daily Maximum	UG/L	2/Month	Grab
	RQL	***	***		***	10	10			
January thru December										
Pyrene	Effluent Gross Value	*****	*****	*****	*****	25 Monthly Average	67 Daily Maximum	UG/L	2/Month	Grab
	RQL	***	***		***	20	20			
January thru December										

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Surface Water DMR Reporting Requirements:

Submit a Monthly DMR: within twenty-five days after the end of every month beginning from the effective date of the permit (EDP).

Table III - A - 1: Surface Water DMR Limits and Monitoring Requirements

PHASE: Final

PHASE Start Date: 06/01/2005

PHASE End Date:

Parameter	Sample Point	Limit	Limit	Units	Limit	Limit	Limit	Units	Frequency	Sample Type
Benzo(a)anthracene	Effluent Gross Value	*****	*****	*****	*****	REPORT Monthly Average	10 Daily Maximum	UG/L	2/Month	Grab
	January thru December	***	***		***	***	10			
Naphthalene	Effluent Gross Value	*****	*****	*****	*****	22 Monthly Average	59 Daily Maximum	UG/L	2/Month	Grab
	January thru December	***	***		***	8	8			
Methyl tert-butyl Ether	Raw Sew/influent	*****	*****	*****	*****	REPORT Monthly Average	REPORT Daily Maximum	UG/L	2/Month	Grab
	January thru December	***	***		***	***	***			
Methyl tert-butyl Ether	Effluent Gross Value	*****	*****	*****	*****	70 Monthly Average	REPORT Daily Maximum	UG/L	2/Month	Grab
	January thru December	***	***		***	***	***			
Methyl tert-butyl Ether	Percent Removal	*****	*****	*****	85 Monthly Av Minimum	*****	*****	PERCENT	2/Month	Calculated
	January thru December	***	***		***	***	***			
Benzene	Effluent Gross Value	*****	*****	*****	*****	REPORT Monthly Average	7 Daily Maximum	UG/L	2/Month	Grab
	January thru December	***	***		***	7	7			
Tetrachloroethylene	Effluent Gross Value	*****	*****	*****	*****	REPORT Monthly Average	16 Daily Maximum	UG/L	2/Month	Grab
	January thru December	***	***		***	***	***			

501973

Surface Water DMR Reporting Requirements:

Submit a Monthly DMR: within twenty-five days after the end of every month beginning from the effective date of the permit (EDP).

Table III - A - 1: Surface Water DMR Limits and Monitoring Requirements**PHASE: Final****PHASE Start Date: 06/01/2005****PHASE End Date:**

Parameter	Sample Point	Limit	Limit	Units	Limit	Limit	Limit	Units	Frequency	Sample Type
Tertiary Butyl Alcohol (TBA)	Raw Sew/Influent	*****	*****	*****	*****	REPORT Monthly Average	REPORT Daily Maximum	UG/L	2/Month	Grab
	January thru December	QL	***		***	***	***			
Tertiary Butyl Alcohol (TBA)	Effluent Gross Value	*****	*****	*****	*****	REPORT Monthly Average	REPORT Daily Maximum	UG/L	2/Month	Grab
	January thru December	QL	***		***	***	***			
2,4-Dimethylphenol	Effluent Gross Value	*****	*****	*****	*****	18 Monthly Average	36 Daily Maximum	UG/L	2/Month	Grab
	January thru December	QL	***		***	***	***			
Phenol Single Compound	Effluent Gross Value	*****	*****	*****	*****	REPORT Monthly Average	26 Daily Maximum	UG/L	2/Month	Grab
	January thru December	RQL	***		***	10	10			

501974



State of New Jersey

Department of Environmental Protection
Division of Water Quality
P.O. Box 029 Trenton, NJ 08625-0029
Phone: (609) 292-4860
Fax: (609) 984-7938

Bradley M. Campbell
Commissioner

E. McGreevey
Governor

CERTIFIED MAIL RETURN RECEIPT REQUESTED

DEC 04 2003

Rich Puvogel, Project Manager
USEPA
290 Broadway
19th Floor
New York, NY 10278

Re: Surface Water GPA Renewal
Category: B4B -General Permit GW Petro Prod Cleanup
NJPDES Permit No. NJG0139050
Federal Creosote Superfund Site
Manville Boro, Somerset County

Dear Mr. Puvogel:

Enclosed is an Individual NJPDES/DSW General Permit Authorization under the General Groundwater Petroleum Product Cleanup (B4B) Permit which was issued by the Department on October 31, 2003. This General Permit Authorization is issued in accordance with the New Jersey Pollutant Discharge Elimination System (NJPDES) Regulations N.J.A.C. 7:14A-1 et seq.

This individual General Permit Authorization allows for the discharge of treated groundwater through the discharge outfall specified on your permit authorization page. Violation of any condition of this authorization may subject the permittee to significant penalties.

The Department recognizes that the discharge is a dewatering discharge that is expected to occur for approximately eighteen months. Please note that because this is a dewatering discharge, you are required to sample twice per week for all the parameters specified in Part III. Due to the short term nature of the discharge as well as the fact that any metals present were at average levels below the remediation standards at N.J.A.C. 7:14A-12, Appendix B, the Department has not imposed the chronic whole effluent toxicity requirements at this time. The Department reserves the right to impose such requirements in a future permit action if deemed necessary.

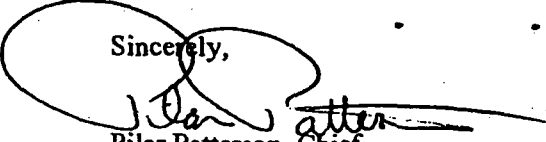
The enclosed Authorization to discharge groundwater under the General Permit shall expire on November 30, 2008 or the expiration date of the Individual Authorization Page. Applications for renewal of this Authorization must be submitted to the Department at least 180 days prior to expiration of the Individual Authorization pursuant to N.J.A.C. 7:14A-4.2(e)3.

A copy of the Department's most recently revised Discharge Monitoring Report (DMR) Instruction Manual is available if needed by contacting the Bureau of Point Source Permitting. Please note that if there is a discrepancy between the General Permit Authorization and the DMR Instruction Manual, the General Permit Authorization always takes precedence.

All monitoring shall be conducted in accordance with 1) the Department's "Field Sampling Procedures Manual" applicable at the time of sampling (N.J.A.C. 7:14A-6.5(b)4), and/or 2) the method approved by the Department in Part IV of the permit. The Field Sampling Procedures Manual is available through Maps and Publications Sales Office; Bureau of Revenue, PO Box 417, Trenton, New Jersey 08625, at (609) 777-1038.

If you have questions or comments regarding the final action, please contact Susan Rosenwinkel at (609) 292-4860.

Sincerely,


Pilar Patterson, Chief
Bureau of Point Source Permitting - Region 2

Enclosures

c: Permit Distribution List

Masterfile #: 60255; PI #: 92460

Table of Contents

This final general permit authorization contains the items listed below:

1. Cover Letter
2. Table of Contents
3. NJPDES Permit Authorization Page for NJG0139050
4. NJPDES Permit Authorization Page for Master General Permit NJPDES No. NJ0102709
5. USGS Map
6. Site Map
7. Part I – General Requirements: NJPDES
8. Part II – General Requirements: Discharge Categories
9. Part III – Limits and Monitoring Requirements
10. Part IV – Specific Requirements: Narrative

New Jersey Department of Environmental Protection



Bureau of Point Source Permitting - Region 2
Division of Water Quality
PO Box 029
Trenton, NJ 08625-0029
(609) 292-4860

AUTHORIZATION TO DISCHARGE
B4B -General Permit GW Petro Prod Cleanup

Facility Name: Federal Creosote Superfund Site

PI ID #: 92460

Facility Address:
172-216 E Camplain Road
Manville, NJ 08835

NJPDES #: NJG0139050

SIC Code: 2491

Type of Activity: Surface Water GPA Renewal

Owner:
USEPA
290 Broadway
19TH Floor
New York, NY 10278

Operating Entity:
USEPA
290 Broadway
19TH Floor
New York, NY 10278


Issuance Date:
11/25/2003

Effective Date:
12/1/2003

Expiration Date:
5/31/2005

Outfall Number	Latitude	Longitude	Receiving Stream	Classification
DSN 001D	40° 32' 28"	74° 34' 42"	Millstone River	FW2-NT

Your Request for Authorization under NJPDES General Permit No. NJ0102709 has been approved by the New Jersey Department of Environmental Protection.


Pilar Patterson, Chief
Bureau of Point Source Permitting - Region 2
Division of Water Quality
New Jersey Department of Environmental Protection

Date: November 25, 2003



NEW JERSEY POLLUTANT DISCHARGE ELIMINATION SYSTEM

The New Jersey Department of Environmental Protection hereby grants you a NJPDES permit for the facility/activity named in this document. This permit is the regulatory mechanism used by the Department to help ensure your discharge will not harm the environment. By complying with the terms and conditions specified, you are assuming an important role in protecting New Jersey's valuable water resources. Your acceptance of this permit is an agreement to conform with all of its provisions when constructing, installing, modifying, or operating any facility for the collection, treatment, or discharge of pollutants to waters of the state. If you have any questions about this document, please feel free to contact the Department representative listed in the permit cover letter. Your cooperation in helping us protect and safeguard our state's environment is appreciated.

Permit Number: NJ0102709

Final: Surface Water Master General Permit Renewal

Permittee:

NJPDES Master General Permit Program Interest
Category B4B
Per Individual Notice of Authorization
Division of Water Quality
P.O. Box 029, 401 East State Street
Trenton, NJ 08625

Co-Permittee:

Property Owner:

NJPDES Master General Permit Program Interest
Category B4B
Per Individual Notice of Authorization
Division of Water Quality
P.O. Box 029, 401 East State Street
Trenton, NJ 08625

Location Of Activity:

NJPDES Master General Permit Program Interest
Category B4B
Per Individual Notice of Authorization
Division of Water Quality
P.O. Box 029, 401 East State Street
Trenton, NJ 08625

Authorization(s) Covered Under This Approval	Issuance Date	Effective Date	Expiration Date
B4B -General Permit GW Petro Prod Cleanup	10/31/2003	12/1/2003	11/30/2008

By Authority of:
Commissioner's Office


DEP AUTHORIZATION

Pilar Patterson, Chief
Bureau of Point Source Permitting - Region 2
Division of Water Quality

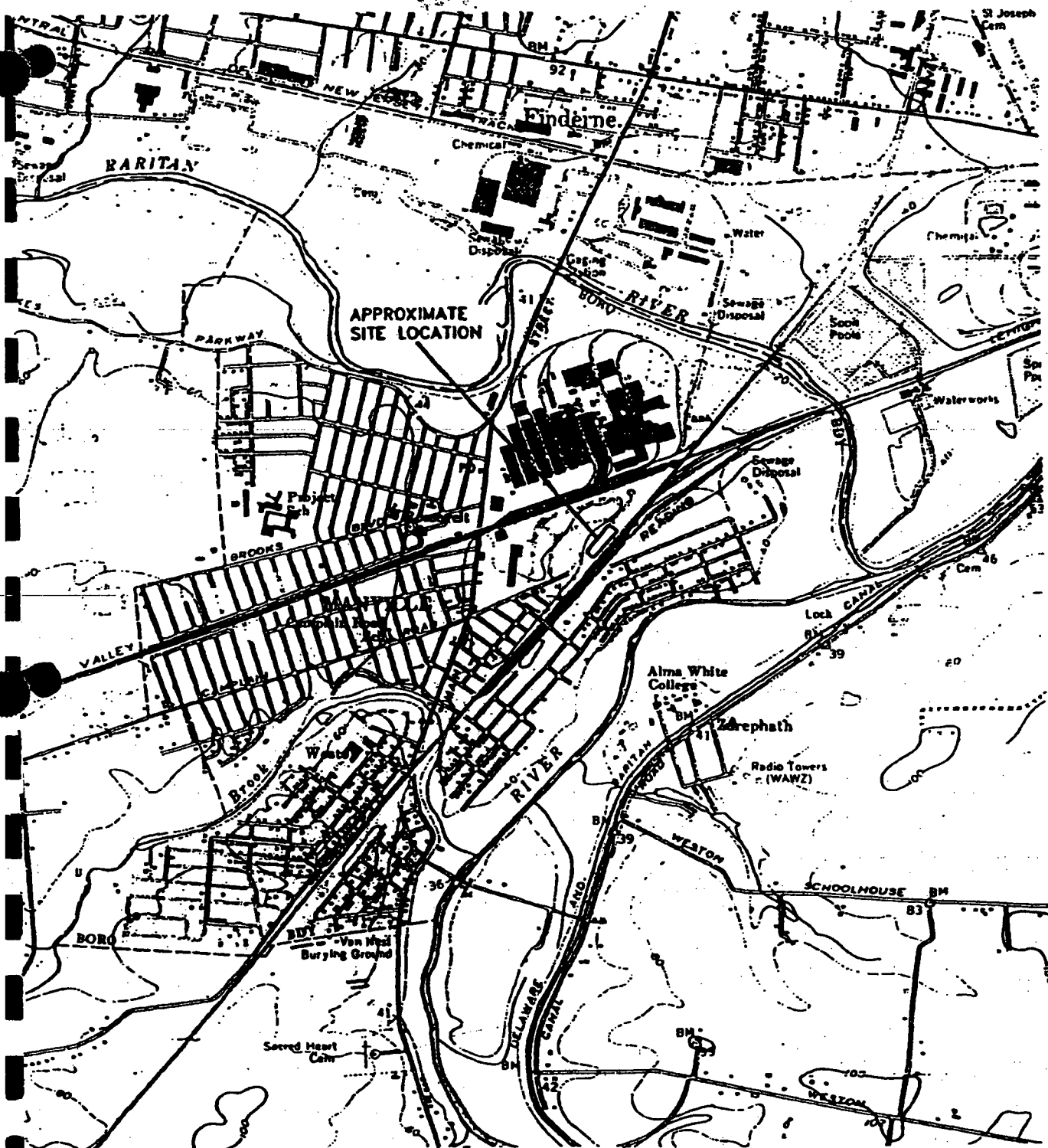

DEP AUTHORIZATION

Howard Tompkins, Chief
Bureau of Point Source Permitting - Region 1
Division of Water Quality

(Terms, conditions and provisions attached hereto)

Division of Water Quality

501979



SOURCE:
USGS 7.5 MINUTE QUADRANGLE
BOUND BROOK, NJ
1955
PHOTOREVISED 1970
PHOTOINSPECTION 1977

SCALE = 1:24,000
HUC 14:2030105110
EPA Reach No: 02030105 - 026
PSD: 07170006

FEDERAL CREOSOTE SUPERFUND SITE
MANVILLE, NEW JERSEY
NJPDDES/DSW-CATEGORY B4B GPPC PERMIT

USGS SITE LOCATION MAP

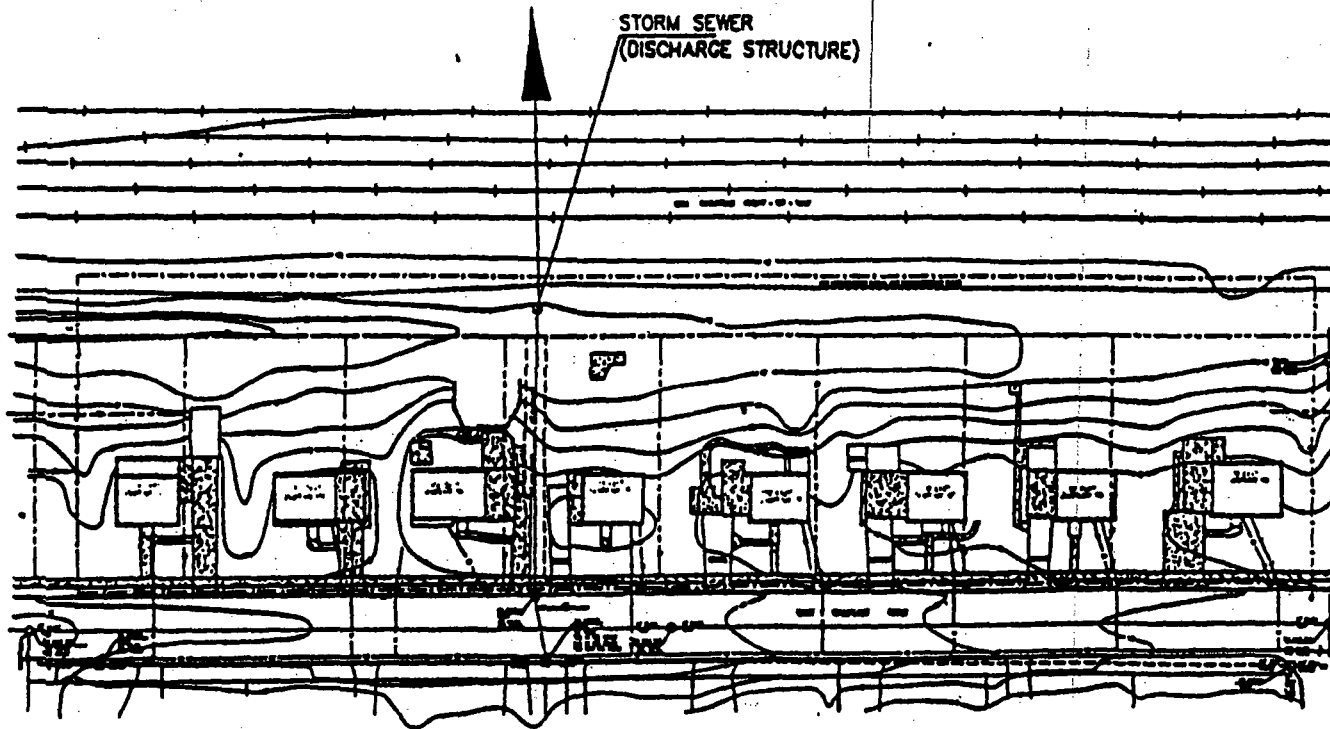
BBL

BLASLAND, BOUCK & LEE, INC.
engineers & scientists

FIGURE
C

TO DSN001
(AT MILLSTONE RIVER)

STORM SEWER
(DISCHARGE STRUCTURE)



LEGEND
--- EXISTING FENCE/
CONSTRUCTION LIMITS

SOURCE:
COM FEDERAL PROGRAMS
CORPORATION
P4-CRISTAL, SEPTEMBER 2000
"EXISTING SITE CONDITIONS"



FEDERAL CRUISE SHIPYARD SITE
MANVILLE, NEW JERSEY
HAPDC/DSN-CATEGORY B4B OPPG PER

SITE PLAN

BBL BUREAU OF BUILDING & CONSTRUCTION
ENGINEERS & ARCHITECTS

501981

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE
LATEST EDITIONS OF THE
FEDERAL CRUISE SHIPYARD
MANUAL, NEW JERSEY

PART I GENERAL REQUIREMENTS: NJPDES

A. General Requirements of all NJPDES Permits

1. Requirements Incorporated by Reference

- a. The permittee shall comply with all conditions set forth in this permit and with all the applicable requirements incorporated into this permit by reference. The permittee is required to comply with the regulations, including those cited in paragraphs b. through e. following, which are in effect as of the effective date of the final permit.

b. General Conditions

Penalties for Violations	N.J.A.C. 7:14-8.1 <u>et seq.</u>
Incorporation by Reference	N.J.A.C. 7:14A-2.3
Toxic Pollutants	N.J.A.C. 7:14A-6.2(a)4i
Duty to Comply	N.J.A.C. 7:14A-6.2(a)1 & 4
Duty to Mitigate	N.J.A.C. 7:14A-6.2(a)5 & 11
Inspection and Entry	N.J.A.C. 7:14A-2.11(e)
Enforcement Action	N.J.A.C. 7:14A-2.9
Duty to Reapply	N.J.A.C. 7:14A-4.2(e)3
Signatory Requirements for Applications and Reports	N.J.A.C. 7:14A-4.9
Effect of Permit/Other Laws	N.J.A.C. 7:14A-6.2(a)6 & 7 & 2.9(c)
Severability	N.J.A.C. 7:14A-2.2
Administrative Continuation of Permits	N.J.A.C. 7:14A-2.8
Permit Actions	N.J.A.C. 7:14A-2.7(c)
Reopener Clause	N.J.A.C. 7:14A-6.2(a)10
Permit Duration and Renewal	N.J.A.C. 7:14A-2.7(a) & (b)
Consolidation of Permit Process	N.J.A.C. 7:14A-15.5
Confidentiality	N.J.A.C. 7:14A-18.2 & 2.11(g)
Fee Schedule	N.J.A.C. 7:14A-3.1
Treatment Works Approval	N.J.A.C. 7:14A-22 & 23

c. Operation And Maintenance

Need to Halt or Reduce not a Defense	N.J.A.C. 7:14A-2.9(b)
Proper Operation and Maintenance	N.J.A.C. 7:14A-6.12

d. Monitoring And Records

Monitoring	N.J.A.C. 7:14A-6.5
Recordkeeping	N.J.A.C. 7:14A-6.6
Signatory Requirements for Monitoring Reports	N.J.A.C. 7:14A-6.9

e. Reporting Requirements

Planned Changes	N.J.A.C. 7:14A-6.7
Reporting of Monitoring Results	N.J.A.C. 7:14A-6.8
Noncompliance Reporting	N.J.A.C. 7:14A-6.10 & 6.8(h)
Hotline/Two Hour & Twenty-four Hour Reporting	N.J.A.C. 7:14A-6.10(c) & (d)
Written Reporting	N.J.A.C. 7:14A-6.10(e) & (f) & 6.8(h)
Duty to Provide Information	N.J.A.C. 7:14A-2.11, 6.2(a)14 & 18.1
Schedules of Compliance	N.J.A.C. 7:14A-6.4
Transfer	N.J.A.C. 7:14A-6.2(a)8 & 16.2

PART II

GENERAL REQUIREMENTS: DISCHARGE CATEGORIES

A. Additional Requirements Incorporated By Reference

1. Requirements for Discharges to Surface Waters

- a. In addition to conditions in Part I of this permit, the conditions in this section are applicable to activities at the permitted location and are incorporated by reference. The permittee is required to comply with the regulations which are in effect as of the effective date of the final permit.
- i. Surface Water Quality Standards N.J.A.C. 7:9B-1

B. General Conditions

1. Scope

- a. The issuance of this permit shall not be considered as a waiver of any applicable federal, state, and local rules, regulations and ordinances.

2. Permit Renewal Requirement

- a. Permit conditions remain in effect and enforceable until and unless the permit is modified, renewed or revoked by the Department.
- b. Submit a complete permit renewal application: 180 days before the the Expiration Date.

3. Notification of Non-Compliance

- a. The permittee shall notify the Department of all non-compliance when required in accordance with N.J.A.C. 7:14A-6.10 by contacting the DEP HOTLINE at 1-877-WARNDEP (1-877-927-6337).
- b. The permittee shall submit a written report as required by N.J.A.C. 7:14A-6.10 within five days.

4. Notification of Changes

- a. The permittee shall give written notification to the Department of any planned physical or operational alterations or additions to the permitted facility when the alteration is expected to result in a significant change in the permittee's discharge and/or residuals use or disposal practices including the cessation of discharge in accordance with N.J.A.C. 7:14A-6.7.
- b. Prior to any change in ownership, the current permittee shall comply with the requirements of N.J.A.C. 7:14A-16.2, pertaining to the notification of change in ownership.

5. Access to Information

- a. The permittee shall allow an authorized representative of the Department, upon the presentation of credentials, to enter upon a person's premises, for purposes of inspection, and to access / copy any records that must be kept under the conditions of this permit.

6. Operator Certification

- a. Pursuant to N.J.A.C. 7:10A-1.1 et seq. every wastewater system not exempt pursuant to N.J.A.C. 7:10A-1.1(b) requires a licensed operator. The operator of a system shall meet the Department's requirements pursuant to N.J.A.C. 7:10A-1.1 and any amendments. The name of the proposed operator, where required shall be submitted to the Department at the address below, in order that his/her qualifications may be determined prior to initiating operation of the treatment works.

- i. Notifications shall be submitted to:
NJDEP
Examination and Licensing Unit
P.O. Box 417
Trenton, New Jersey 08625
(609)777-1012

- b. The permittee shall notify the Department of any changes in licensed operator within two weeks of the change.

7. Operation Restrictions

- a. The operation of a waste treatment or disposal facility shall at no time create: (a) a discharge, except as authorized by the Department in the manner and location specified in Part III of this permit; (b) any discharge to the waters of the state or any standing or ponded condition for water or waste, except as specifically authorized by a valid NJPDES permit.

8. Residuals Management

- a. The permittee shall comply with land-based sludge management criteria and shall conform with the requirements for the management of residuals and grit and screenings under N.J.A.C. 7:14A-6.15(a), which includes:
- i. Standards for the Use or Disposal of Residual, N.J.A.C. 7:14A-20;
 - ii. Section 405 of the Federal Act governing the disposal of sludge from treatment works treating domestic sewage;
 - iii. The Solid Waste Management Act, N.J.S.A. 13:1E-1 et seq., and the Solid Waste Management Rules, N.J.A.C. 7:26;
 - iv. The Sludge Quality Assurance Regulations, N.J.A.C. 7:14C;
 - v. The Statewide Sludge Management Plan promulgated pursuant to the Water Quality Planning Act, N.J.S.A. 58:11A-1 et seq., and the Solid Waste Management Act, N.J.S.A. 13:1E-1 et seq.; and
 - vi. The provisions concerning disposal of sewage sludge and septage in sanitary landfills set forth at N.J.S.A. 13:1E-42 and the Statewide Sludge Management Plan.
 - vii. Residual that is disposed in a municipal solid waste landfill unit shall meet the requirements in 40 CFR Part 258 and/or N.J.A.C. 7:26 concerning the quality of residual disposed in a municipal solid waste landfill unit. (That is, passes the Toxicity Characteristic Leaching Procedure and does not contain "free liquids" as defined at N.J.A.C. 7:14A-1.2.)
- b. If any applicable standard for residual use or disposal is promulgated under section 405(d) of the Federal Act and Sections 4 and 6 of the State Act and that standard is more stringent than any limitation on the pollutant or practice in the permit, the Department may modify or revoke and reissue the permit to conform to the standard for residual use or disposal.

- c. The permittee shall make provisions for storage, or some other approved alternative management strategy, for anticipated downtimes at a primary residual management alternative. The permittee shall not be permitted to store residual beyond the capacity of the structural treatment and storage components of the treatment works. N.J.A.C. 7:14A-20.8(a) and N.J.A.C. 7:26 provide for the temporary storage of residuals for periods not exceeding six months, provided such storage does not cause pollutants to enter surface or ground waters of the State. The storage of residual for more than six months is not authorized under this permit. However, this prohibition does not apply to residual that remains on the land for longer than six months when the person who prepares the residual demonstrates that the land on which the residual remains is not a surface disposal site or landfill. The demonstration shall explain why residual must remain on the land for longer than six months prior to final use or disposal, discuss the approximate time period during which the residual shall be used or disposed and provide documentation of ultimate residual management arrangements. Said demonstration shall be in writing, be kept on file by the person who prepares residual, and submitted to the Department upon request.
- d. The permittee shall comply with the appropriate adopted District Solid Waste or Sludge Management Plan (which by definition in N.J.A.C. 7:14A-1.2 includes Generator Sludge Management Plans), unless otherwise specifically exempted by the Department.
- e. The preparer must notify and provide information necessary to comply with the N.J.A.C. 7:14A-20 land application requirements to the person who applies bulk residual to the land. This shall include, but not be limited to, the applicable recordkeeping requirements and certification statements of 40 CFR 503.17 as referenced at N.J.A.C. 7:14A-20.7(j).
- f. The preparer who provides biosolids to another person who further prepares the biosolids for application to the land must provide this person with notification and information necessary to comply with the N.J.A.C. 7:14A-20 land application requirements.
- g. Any person who prepares bulk residual in New Jersey that is applied to land in a State other than New Jersey shall comply with the requirement at N.J.A.C. 7:14A-20.7(b)1.ix and/or 20.7(b)1.x, as applicable, to provide written notice to the Department and to the permitting authority for the State in which the bulk residual is proposed to be applied.

PAI III LIMITS AND MONITORING REQUIREMENTS

A. 001D REMEDIATION EFFLUENT

Location Description

The facility is authorized to discharge treated dewatered groundwater into the Millstone River, classified as FW2-NT(C2), via a storm sewer at Lat. 40°32'28" & Lon. 74°34'42". Effluent sampling shall be performed after all treatment steps but prior to discharge. Influent sampling shall be performed prior to any treatment.

Discharge Categories

General Permit GW Petro Prod Cleanup

Surface Water DMR Reporting Requirements:

Submit a Monthly DMR: within twenty-five days after the end of every month beginning from the effective date of the permit (EDP).

Table III - A - 1: Surface Water DMR Limits and Monitoring Requirements

Parameter	Sample Point	Limit	Statistical Base	Sampling Frequency	Sample Type	Monitoring Period	Phase	Quantification Limit
✓ Flow, In Conduit or Thru Treatment Plant	Effluent Gross Value	REPORT GPD	Monthly Average	2 / Week	Metered	January thru December	Final	
✓ Flow, In Conduit or Thru Treatment Plant	Effluent Gross Value	REPORT GPD	Daily Maximum	2 / Week	Metered	January thru December	Final	
✓ pH	Effluent Gross Value	6.0 SU	Monthly Minimum	2 / Week	Grab	January thru December	Final	
✓ pH	Effluent Gross Value	9.0 SU	Monthly Maximum	2 / Week	Grab	January thru December	Final	
✓ Solids, Total Suspended	Effluent Gross Value	REPORT MG/L	Monthly Average	2 / Week	Grab	January thru December	Final	
✓ Solids, Total Suspended	Effluent Gross Value	40 MG/L	Daily Maximum	2 / Week	Grab	January thru December	Final	
✓ Petroleum Hydrocarbons	Effluent Gross Value	10 MG/L	Monthly Average	2 / Week	Grab	January thru December	Final	
✓ Petroleum Hydrocarbons	Effluent Gross Value	15 MG/L	Daily Maximum	2 / Week	Grab	January thru December	Final	
✓ Carbon, Tot Organic (TOC)	Effluent Gross Value	REPORT MG/L	Monthly Average	2 / Week	Grab	January thru December	Final	
✓ Carbon, Tot Organic (TOC)	Effluent Gross Value	20 MG/L	Daily Maximum	2 / Week	Grab	January thru December	Final	
✓ Chromium, Total (as Cr)	Effluent Gross Value	50 UG/L	Monthly Average	2 / Week	Grab	January thru December	Final	10 Rec Quant Level
✓ Chromium, Total (as Cr)	Effluent Gross Value	100 UG/L	Daily Maximum	2 / Week	Grab	January thru December	Final	10 Rec Quant Level
✓ Copper, Total (as Cu)	Effluent Gross Value	50 UG/L	Monthly Average	2 / Week	Grab	January thru December	Final	10 Rec Quant Level

501986

Table III - A - 1: Surface Water DMR Limits and Monitoring Requirements

Parameter	Sample Point	Limit	Statistical Base	Sampling Frequency	Sample Type	Monitoring Period	Phase	Quantification Limit
✓ Copper, Total (as Cu)	Effluent Gross Value	100 UG/L	Daily Maximum	2 / Week	Grab	January thru December	Final	10 Rec Quant Level
✓ Nickel, Total (as Ni)	Effluent Gross Value	72 UG/L	Monthly Average	2 / Week	Grab	January thru December	Final	10 Rec Quant Level
✓ Nickel, Total (as Ni)	Effluent Gross Value	144 UG/L	Daily Maximum	2 / Week	Grab	January thru December	Final	10 Rec Quant Level
✓ Lead, Total Recoverable	Effluent Gross Value	37 UG/L	Monthly Average	2 / Week	Grab	January thru December	Final	10 Rec Quant Level
✓ Lead, Total Recoverable	Effluent Gross Value	79 UG/L	Daily Maximum	2 / Week	Grab	January thru December	Final	10 Rec Quant Level
✓ Fluoranthene	Effluent Gross Value	25 UG/L	Monthly Average	2 / Week	Grab	January thru December	Final	10 Rec Quant Level
✓ Fluoranthene	Effluent Gross Value	68 UG/L	Daily Maximum	2 / Week	Grab	January thru December	Final	10 Rec Quant Level
✓ Fluorene	Effluent Gross Value	22 UG/L	Monthly Average	2 / Week	Grab	January thru December	Final	10 Rec Quant Level
✓ Fluorene	Effluent Gross Value	59 UG/L	Daily Maximum	2 / Week	Grab	January thru December	Final	10 Rec Quant Level
✓ Phenanthrene	Effluent Gross Value	22 UG/L	Monthly Average	2 / Week	Grab	January thru December	Final	10 Rec Quant Level
✓ Phenanthrene	Effluent Gross Value	59 UG/L	Daily Maximum	2 / Week	Grab	January thru December	Final	10 Rec Quant Level
✓ Pyrene	Effluent Gross Value	25 UG/L	Monthly Average	2 / Week	Grab	January thru December	Final	20 Rec Quant Level
✓ Pyrene	Effluent Gross Value	67 UG/L	Daily Maximum	2 / Week	Grab	January thru December	Final	20 Rec Quant Level
✓ Benzo(a)anthracene	Effluent Gross Value	REPORT UG/L	Monthly Average	2 / Week	Grab	January thru December	Final	
✓ Benzo(a)anthracene	Effluent Gross Value	10 UG/L	Daily Maximum	2 / Week	Grab	January thru December	Final	10 Rec Quant Level
✓ Naphthalene	Effluent Gross Value	22 UG/L	Monthly Average	2 / Week	Grab	January thru December	Final	8 Rec Quant Level
✓ Naphthalene	Effluent Gross Value	59 UG/L	Daily Maximum	2 / Week	Grab	January thru December	Final	8 Rec Quant Level
✓ Methyl tert-butyl Ether	Raw Sew/influent	REPORT UG/L	Monthly Average	2 / Week	Grab	January thru December	Final	
✓ Methyl tert-butyl Ether	Raw Sew/influent	REPORT UG/L	Daily Maximum	2 / Week	Grab	January thru December	Final	

501987

Table III - A - 1: Surface Water DMR Limits and Monitoring Requirements

Parameter	Sample Point	Limit	Statistical Base	Sampling Frequency	Sample Type	Monitoring Period	Phase	Quantification Limit
✓ Methyl tert-butyl Ether	Effluent Gross Value	70 UG/L	Monthly Average	2 / Week	Grab	January thru December	Final	
✓ Methyl tert-butyl Ether	Effluent Gross Value	REPORT UG/L	Daily Maximum	2 / Week	Grab	January thru December	Final	
✓ Methyl tert-butyl Ether	Percent Removal	85 PERCENT	Monthly Av Minimum	2 / Week	Calculated	January thru December	Final	
✓ Benzene	Effluent Gross Value	REPORT UG/L	Monthly Average	2 / Week	Grab	January thru December	Final	7 Rec Quant Level
✓ Benzene	Effluent Gross Value	7 UG/L	Daily Maximum	2 / Week	Grab	January thru December	Final	7 Rec Quant Level
✓ Tetrachloroethylene	Effluent Gross Value	REPORT UG/L	Monthly Average	2 / Week	Grab	January thru December	Final	
✓ Tetrachloroethylene	Effluent Gross Value	16 UG/L	Daily Maximum	2 / Week	Grab	January thru December	Final	
✓ Tertiary Butyl Alcohol (TBA)	Raw Sew/influent	REPORT UG/L	Monthly Average	2 / Week	Grab	January thru December	Final	
✓ Tertiary Butyl Alcohol (TBA)	Raw Sew/influent	REPORT UG/L	Daily Maximum	2 / Week	Grab	January thru December	Final	
✓ Tertiary Butyl Alcohol (TBA)	Effluent Gross Value	REPORT UG/L	Monthly Average	2 / Week	Grab	January thru December	Final	
✓ Tertiary Butyl Alcohol (TBA)	Effluent Gross Value	REPORT UG/L	Daily Maximum	2 / Week	Grab	January thru December	Final	
✓ 2,4-Dimethylphenol	Effluent Gross Value	18 UG/L	Monthly Average	2 / Week	Grab	January thru December	Final	
✓ 2,4-Dimethylphenol	Effluent Gross Value	36 UG/L	Daily Maximum	2 / Week	Grab	January thru December	Final	
✓ Phenol Single Compound	Effluent Gross Value	REPORT UG/L	Monthly Average	2 / Week	Grab	January thru December	Final	10 Rec Quant Level
✓ Phenol Single Compound	Effluent Gross Value	26 UG/L	Daily Maximum	2 / Week	Grab	January thru December	Final	10 Rec Quant Level

501988

PART IV

SPECIFIC REQUIREMENTS: NARRATIVE

General Permit GW Petro Prod Cleanup

A. MONITORING REQUIREMENTS

1. Standard Monitoring Requirements

- a. Each analysis required by this permit shall be performed by a New Jersey Certified Laboratory that is certified to perform that analysis.
- b. The Permittee shall perform all water/wastewater analyses in accordance with the analytical test procedures specified in 40 CFR 136 unless other test procedures have been approved by the Department in writing or as otherwise specified in the permit.
- c. The permittee shall utilize analytical methods that will ensure compliance with the Quantification Levels (QLs) listed in PART III. If the permittee and/or contract laboratory determines that the QLs achieved for any pollutant(s) generally will not be as sensitive as the QLs specified in PART III, the permittee must submit a justification of such to the appropriate Bureau of Point Source Permitting, as listed in this permit authorization.
- d. All sampling shall be conducted in accordance with the Department's Field Sampling Procedures Manual; or an alternate method approved by the Department in writing.
- e. All monitoring shall be conducted as specified in Part III.
- f. All sample frequencies expressed in Part III are minimum requirements. However, if additional samples are taken, analytical results shall be reported as appropriate.
- g. Analysis for total recoverable lead shall follow the sample preparation procedures contained in the Method 200.2 "Sample Preparation Procedure for Spectrochemical Determination of Total Recoverable Elements".
- h. The permittee shall use EPA Method 624 in analyzing methyl tert butyl ether (MTBE) and tertiary butyl alcohol (TBA).
- i. Influent shall be sampled at a point prior to any treatment by the permittee's treatment units.
- j. If the effluent MTBE level is less than or equal to 70 ug/L during a calendar month, the 85% MTBE minimum percent removal limitation does not apply. If the MTBE minimum percent removal limitation does not apply, the permittee shall report "Code =N" on its monitoring report form under MTBE percent removal. If the daily maximum effluent MTBE level is greater than 70 ug/L for a calendar month, an 85% MTBE minimum percent removal limitation does apply. The permittee shall report the minimum percent removal value achieved during that calendar month on its monitoring report form under MTBE minimum percent removal.
- k. Flow shall be measured using a meter unless specified otherwise in the individual authorization.

B. RECORDKEEPING

1. Standard Recordkeeping Requirements

- a. The permittee shall retain records of all monitoring information including all calibration and maintenance records, all original strip chart recordings for continuous monitoring instrumentation, copies of all reports, and all data used to complete the application for this permit.

- b. Records of monitoring information shall include the date, locations and time of sampling or measurements, the individual who performed the sampling or measurements, the date the samples were collected, the date the samples were analyzed, the individual who performed the analysis, the analytical method used, and the results.
- c. The permittee shall retain copies of all reports required by a NJPDES permit and records of all data used to complete the application for a NJPDES permit for a period of at least 5 years unless otherwise required by 40 CFR Part 503.

C. REPORTING

1. Standard Reporting Requirements

- a. The permittee shall submit all required monitoring results to the DEP on the forms provided to the following addresses:
 - i. NJDEP
Division of Water Quality
Bureau of Permit Management
P.O. Box 029
Trenton, New Jersey 08625
- b. If requested by the Water Compliance and Enforcement Bureau, please send the information requested to the following address:
 - i. Northern Bureau of Water Compliance and Enforcement
1259 Route 46 East
Parsippany, NJ 07054-4191
(Counties of Bergen, Essex, Hudson, Hunterdon, Morris, Passaic, Somerset, Sussex and Warren)
 - ii. Southern Bureau of Water Compliance and Enforcement
One Port Center
2 Riverside Drive, Suite 201
(Counties of Atlantic, Burlington, Camden, Cape May, Cumberland, Gloucester and Salem)
 - iii. Central Bureau of Water Compliance and Enforcement
300 Horizon Center, P.O. Box 407
Trenton, NJ 08625-0407
(Counties of Mercer, Middlesex, Monmouth, Ocean and Union)
- c. For submittal of paper monitoring report forms:
 - i. All monitoring reports shall be signed by the highest ranking official having day-to-day managerial and operational responsibilities for the discharging facility in accordance with N.J.A.C. 7:14A-6.9.
 - ii. The highest ranking official may delegate responsibility to sign in accordance with NJAC 7:14A-6.9(c).
- d. Monitoring reports shall be completed in accordance with the current Discharge Monitoring Report Manual and any updates.
- e. If monitoring for a parameter is not required for that monitoring period, the permittee is required to report "CODE=N" on that Monitoring Report Form.
- f. For intermittent discharges, the permittee shall obtain a sample during at least one of the discharge events occurring during a monitoring period. Place a check mark in the "No discharge this monitoring period" box on the monitoring report submittal form only if there are no discharge events during the entire monitoring period.

D. OPERATIONAL ISSUES

1. Operational Requirements

- a. The treatment works shall operate at the optimal average design flow rate for maximum groundwater clean-up.
- b. No backwash from any treatment unit(s) for maintenance purposes or any other reasons shall be discharged through the authorized outfall(s).
- c. The permittee shall not attain any effluent limitations by dilution pursuant to N.J.A.C. 7:14A-6.2. Specifically, the permittee shall not pump from a recovery well and divert such waters to the treatment system for the purposes of diluting groundwater from other contaminated recovery wells.
- d. Samples taken in compliance with the specified monitoring requirements shall be taken at the discharge outfall(s) specified in Part III of this permit authorization at the nearest accessible point after final treatment but prior to actual discharge.

E. FACILITY MANAGEMENT**1. Discharge Requirements**

- a. The permittee shall discharge at the location(s) specified in PART III of this permit.
- b. The permittee shall not discharge foam, or cause objectionable deposits, or foaming of the receiving water.
- c. The permittee's discharge shall not produce objectionable color or odor in the receiving stream.
- d. The discharge shall not exhibit a visible sheen.

2. Applicability of Discharge Limitations and Effective Dates

- a. This master permit includes a schedule of compliance for:
Benzene (for discharges to saline waters for Tables A, B and D) - the initial phase limit of 50 ug/L as a daily maximum is effective until November 30, 2006. The final phase limit of 7.0 ug/L as a daily maximum is effective on December 1, 2006.
Total Recoverable Lead - the initial phase limits of 37 ug/L as a monthly average and 79 ug/L as a daily maximum are effective until November 30, 2006. The final phase limit of 10 ug/L as a daily maximum with monthly average monitoring is effective on December 1, 2006. This schedule of compliance does not apply to Table C.
Chronic WET (Table D only and if metals are present) - the initial phase limit of "monitoring only" is effective on the effective date of the individual authorization. The final phase limit of 61% is effective three years from the effective date of the individual authorization.

3. Use of Chemical Addition Agents

- a. If a permittee proposes addition of any chemical or biofouling agents in its treatment system in order to enhance treatment effectiveness and system performance, the permittee must obtain permission from the Department in writing prior to use of such compounds.
- b. The permittee shall submit a letter to the Department describing the use of such chemical addition agents, including information pertaining to dosage rates and frequency of dosage, and shall also include a material safety data sheet for the product(s).
- c. This letter shall be submitted to the appropriate Bureau of Point Source Permitting which issued the individual authorization where the address is included in the cover letter. The Department will then evaluate the submittal and notify the permittee in writing as to whether the compound can be utilized under the conditions of the individual authorization under the GPPC permit renewal. Please note that N.J.A.C. 7:14A-22.4(a)7 does not require a treatment works approval (TWA) modification for chemical addition where it is used for purposes of improving treatment system performance.

4. Operation, Maintenance and Emergency conditions

- a. The permittee shall operate and maintain treatment works and facilities which are installed or used by the permittee to achieve compliance with the terms and conditions of the permit as specified in the Operation & Maintenance Manual.
- b. The permittee shall develop emergency procedures to ensure effective operation of the treatment works under emergency conditions in accordance with NJAC 7:14A-6.12(d).

5. Third Party Storm Sewers

- a. If the permittee proposes to discharge or discharges through an off-site public or private storm drainage system, please note that this GPPC permit renewal to discharge does not exempt, nor shall be construed to exempt, the permittee from compliance with rules, regulations, policies, and/or laws lodged in any agency or subdivision of the state having legal jurisdiction over the storm sewer system proposed for use as a wastewater conveyance.

6. Permanent Cessation of Discharge to Surface Waters

- a. If the permittee permanently discontinues its discharge to surface waters for 30 days or more the appropriate Regional Bureau of Water and Compliance Enforcement shall be notified:
 - i. NORTHERN BUREAU (Counties of Bergen, Essex, Hudson, Hunterdon, Morris, Passaic, Somerset, Sussex and Warren) - (973) 299-7592.
 - ii. CENTRAL BUREAU (Counties of Mercer, Middlesex, Monmouth, Ocean and Union) - (609) 584-4200.
 - iii. SOUTHERN BUREAU (Counties of Atlantic, Burlington, Camden, Cape May, Cumberland, Gloucester and Salem) - (609) 968-2640.

7. Revocation of an Individual Authorization under the GPPC Permit.

- a. If the permittee has permanently ceased its discharge to surface water, the permittee can request revocation of its individual authorization under the GPPC permit. The permittee can obtain the necessary revocation forms by accessing www.state.nj.us/dep/dwq or by contacting the Department's Bureau of Permit Management at (609) 984-4428. The permittee can also contact the appropriate Regional Enforcement Office for further guidance on closure proceedings.
- b. Upon receipt of an administratively complete revocation request, the Department will verify with the appropriate Regional Enforcement Office that the discharge has ceased and that the treatment works has undergone closure, in conformance with N.J.A.C. 7:14A-23.34. The Department will then revoke such individual authorization by preparing a copy of the individual authorization page showing the revocation date of the individual authorization and sending such to the permittee. However, the Department will not revoke an individual authorization if the Site Remediation Program disagrees that revocation is appropriate.

F. CONDITIONS FOR MODIFICATION**1. Causes for modification**

- a. Pursuant to N.J.A.C. 7:14A-6.2(a)(10)(iii), the Department may modify or revoke and reissue any permit to incorporate limitations or requirements to control the discharge of toxic pollutants, including whole effluent, chronic and acute toxicity requirements, chemical specific limitations or toxicity reduction requirements, as applicable.
- b. The Department may incorporate requirements to file monitoring data required by this permit electronically through a minor modification in accordance with N.J.A.C. 7:14A-16.5(a)1.

Non-Compliance Report

Federal Creosote Superfund Site

NJPDES Master General Permit # NJ 0102709

NJPDES/DSW General Permit Authorization # NJG0139050

Pursuant to NJAC 7:14A-6.10, the non-compliance has been reported to DEP Hotline within 24 hours of knowing about violation, DEP case ID#:06-10-18-0809-22. The following is a written account of the discharge submitted as per NJAC 7:14A-6.10(d):

1. Description of Discharge:
 - a. Plant effluent from water treatment facility
 - b. Time of Discharge: Sample indicating non-compliance was collected on September 27th, 2006 at 1300 hrs
 - c. Location of Discharge: Storm sewer at intersection of Valerie Rd. and Valerie Dr., Manville NJ – Leading to outfall #001D, 40deg 32'28"Lat, 74Deg 34'42"L on the, Millstone River.
 - d. Volume of Discharge: 35,372 gals.
 - e. Concentration of Pollutants: See table 1 below
 - f. Receiving Water – Millstone River via Storm Sewer
2. Steps being taken to determine cause of non-compliance:
 - a. Non-compliance is considered an anomaly. A second metals analysis of the effluent sample has been ordered to rule out laboratory error.
 - b. The system was run in recirculation mode and samples of plant influent and effluent were tested onsite for Cu by spectroscopy. All onsite testing showed no free copper detectable in the system.
3. Steps being taken to reduce, remediate and eliminate the non-complying discharge and any damage to the environment, and anticipated time frame to initiate and complete steps:
 - a. Due to laboratory turn around time the non-compliant discharge occurred 19 days before effluent results were verified. Since the treatment system is currently being operated intermittently, the non-complying discharge was an isolated event that has since surely dissipated.
4. Duration of Discharge including dates and times.
 - a. The non-compliant sample represents a discharge event conducted on 9/27/06 between 0945 and 1530, where 35,372 gallons were discharged.
5. The cause of the non-compliance:
 - a. Suspected channeling in activated carbon columns in conjunction with unusually high-TSS influent from dewatering a new phase of excavation.
6. Steps being taken to reduce, eliminate and prevent reoccurrence of the non-complying discharge:

- a. Backwash of activated carbon units will be performed at the beginning of every operating day, regardless of pressure differential, as a Corrective Action.
 - b. Bench testing has shown better coagulation using an alternative polymer. A high molecular-weight cationic polymer will be used to coagulate and remove fine silt along with metals adsorbed to particle surfaces.
7. Estimate of the threat to human health or the environment posed by the discharge:
- a. Human health – minimal threat, receiving waters not used for primary contact recreation or drinking water.
 - b. Environmental – Cu is toxic to fish at discharged levels; however volume of water discharged is very small relative to receiving body flow.
8. The measures the permittee has taken or is taking to remediate the problem and any damage or injury to human health or environment, and to avoid a repetition of the problem.
- a. There is no evident damage to human or environmental health – no remediation is underway or planned.
 - b. See item 6

Table 1 - Data Summary

Contaminant	Permit Limits		Sample Result
	Daily Maximum	Monthly Average	
Copper	100 ppb	50 ppb	101 ppb *

*Note- The only discharge for the month occurred on 9/27/06; only one data point can be used for calculating the monthly average value.

Please feel free to contact the following with questions and concerns:

Sevenson Environmental (Federal Creosote Superfund Site) 908-243-0318
 Joel Czachorowski – Project Manager
 Jason Carlson – Chief WWTP Operator

USEPA: Rich Puvogel – RPM – 908-203-0012 (NYC Office – 212-637-4410)

Non-Compliance Report

Federal Creosote Superfund Site

NJPDES Master General Permit # NJ 0102709

NJPDES/DSW General Permit Authorization # NJG0139050

1. Description of Discharge:

- a. Plant effluent from water treatment facility
- b. Time of Discharge: Sample indicating non-compliance was collected on December 20th, 2006 at 1300 hrs
- c. Location of Discharge: Storm sewer at intersection of Valerie Rd. and Valerie Dr., Manville NJ – Leading to outfall #001D, 40deg 32'28"Lat, 74Deg 34'42"L on the, Millstone River.
- d. Volume of Discharge: 34,248 gals.
- e. Concentration of Pollutants: See table 1 below
- f. Receiving Water – Millstone River via Storm Sewer

2. Steps being taken to determine cause of non-compliance:

- a. Non-compliance is largely due to having only one data point to determine monthly average volume.

3. Steps being taken to reduce, remediate and eliminate the non-complying discharge and any damage to the environment, and anticipated time frame to initiate and complete steps:

- a. Due to laboratory turn around time the non-compliant discharge occurred 19 days before effluent results were verified. Since the treatment system is currently being operated intermittently, the non-complying discharge was an isolated event that has since surely dissipated.

4. Duration of Discharge including dates and times.

- a. The non-compliant sample represents a discharge event conducted on 12/20/06 between 0750 and 1400, where 34,248 gallons were discharged.

5. The cause of the non-compliance:

- a. Due to cold overnight temperatures and thus, cold wastewater, polymer efficacy was greatly diminished.

6. Steps being taken to reduce, eliminate and prevent reoccurrence of the non-complying discharge:

- a. A polymer specialist has been contacted to evaluate other polymers designed specifically for copper sequestration and suitable for use in cold wastewater.

7. Estimate of the threat to human health or the environment posed by the discharge:

- a. Human health – minimal threat, receiving waters not used for primary contact recreation or drinking water.
- b. Environmental – Cu is toxic to fish at discharged levels; however volume of water discharged is very small relative to receiving body flow.

8. The measures the permittee has taken or is taking to remediate the problem and any damage or injury to human health or environment, and to avoid a repetition of the problem.

- a. There is no evident damage to human or environmental health – no remediation is underway or planned.
- b. See item 6

Table 1 - Data Summary

Contaminant	Permit Limits		Sample Result
	Daily Maximum	Monthly Average	
Copper	100 ppb	50 ppb	53 ppb *

*Note- The only discharge for the month occurred on 12/20/06; only one data point can be used for calculating the monthly average value.

Please feel free to contact the following with questions and concerns:

Sevenson Environmental (Federal Creosote Superfund Site) 908-243-0318
Joel Czachorowski – Project Manager
Jason Carlson – Chief WWTP Operator

USEPA: Rich Puvogel – RPM – 908-203-0012 (NYC Office – 212-637-4410)

B

Appendix B



State of New Jersey

Department of Environmental Protection

Robert C. Shinn, Jr.
Commissioner

Municipal Finance and Construction Element

Division of Water Quality

P.O. Box 425

Trenton, New Jersey 08625

Fax: (609) 633-8165

www.state.nj.us/dep/dwq

ALD T. DiFRANCESCO
Acting Governor

August 21, 2001

USEPA
290 Broadway, 19th Fl
New York, NY 10007-1866

Gentlemen:

There is enclosed a permit issued to you pursuant to Title 58 of the Revised Statutes of New Jersey and in consideration of your application received on 07/17/2001 signed by Richard Puvogel, Remedial Project Manager, and Andrew N. Johnson, P.E.

The permit is for the construction and operation of a treatment works in Manville Boro, New Jersey and subject to the conditions as noted on the permit.

This approval is valid for a period of two (2) years from the issuance date, unless otherwise stated in the attached approval document. This approval shall expire unless building, installing or modifying of the treatment works has begun within the initial approval period. Treatment works approvals may be extended beyond the original two year approval date, to a maximum period of five years from the original issuance date, in accordance with the terms and conditions contained in N.J.A.C. 7:14A-22.12. A time extension request must be received by the Department prior to the permit's expiration date. Time extension requests shall be submitted to:

Bureau of Administration and Management
Municipal Finance and Construction Element

P.O. Box 425

401 E. State St., 3rd Floor

Trenton, New Jersey 08625

If you have any questions regarding the permit, please contact me by calling (609) 633-1208.

Sincerely,

Nicholas Horvath

Supervising Environmental Specialist

Bureau of Administration and Management

01-0568

Enclosure

cc: Blasland, Bouck and Lee

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STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
P.O. Box 402, TRENTON, NJ 08625-0402

PERMIT TO CONSTRUCT AND OPERATE* TREATMENT WORKS

**Local Agency approval required prior to operation*

The New Jersey Department of Environmental Protection grants this permit in accordance with your application, attachments accompanying same application, and applicable laws and regulation.

PERMIT NO.	ISSUANCE DATE	EXPIRATION DATE	DESIGN FLOW
01-0568	08/21/2001	08/20/2003	.72 M.G.D.

NAME AND ADDRESS OF APPLICANT
USEPA
290 Broadway, 19th Fl
New York NY 10007-1866

LOCATION OF ACTIVITY
Manville Boro
Somerset County

This permit grants permission to:

Construct and operate an oil/water separator, a polymer feed system, a settling tank, two (2) sediment filters, two (2) 30,000-pound carbon adsorption units and 3 holding tanks (total rated capacity @ 500 GPM) for groundwater remediation at the Federal Creosote Superfund Site, 172-216 E. Camplain Road, Lot 36 and 37, Block 315, in the Borough of Manville, Somerset County.

According to the plans entitled:

"Federal Creosote Superfund Site, Manville, New Jersey", prepared by Blasland, Bouck and Lee, Inc., dated July 16, 2001, unrevised, sheets 2-1, 2-2 and 2-3.

and according to the specifications entitled:

Construction Specifications, Federal Creosote Superfund Site, Manville, New Jersey", signed and sealed by Andrew N. Johnson, P.E., dated July 16, 2001.

Prepared by

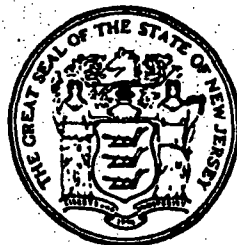
Nicholas Horiates
Supervising Environmental Specialist

APPROVED by the Department of Environmental Protection

Eugene Chebra, P.E., P.P., Chief
Bureau of Administration and Management

This permit is also subject to special provisos and general conditions stipulated on the attached page(s) which are agreed to by the permittee upon acceptance of the permit.

Department of Environmental Protection of the State of New Jersey



This Certifies That

JAMES C. RUSSELL

*Has passed a satisfactory examination and is hereby authorized to
operate a*

N-4 Industrial Wastewater Treatment System

*In accordance with the classification prescribed on the annual license therefor.
Licenses are Renewable.*

*In Witness Whereof, I have hereunto set
my hand and caused the Seal of the State
Department of Environmental Protection
to be affixed.*

*Registry No. N 1081
Trenton, New Jersey*

Dec. 10 19 90

DEPARTMENT OF
ENVIRONMENTAL PROTECTION

STATE OF
NEW JERSEY

Hereby Certifies the Goodstanding of:

JASON CARLSON

SSN: [REDACTED]

License No. **0027421**

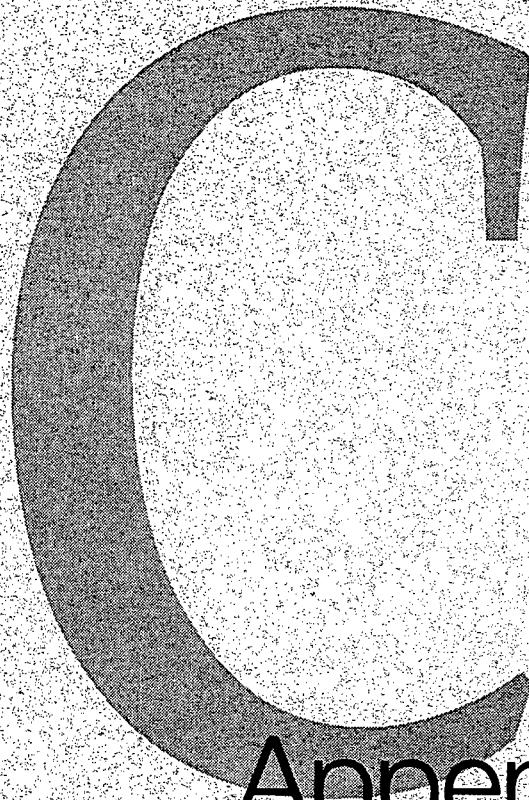
Reg No. **0027421**

AS A LICENSED:

N4 INDUSTRIAL

Expires: **09/30/06**

Document#: **051654170**



Appendix C

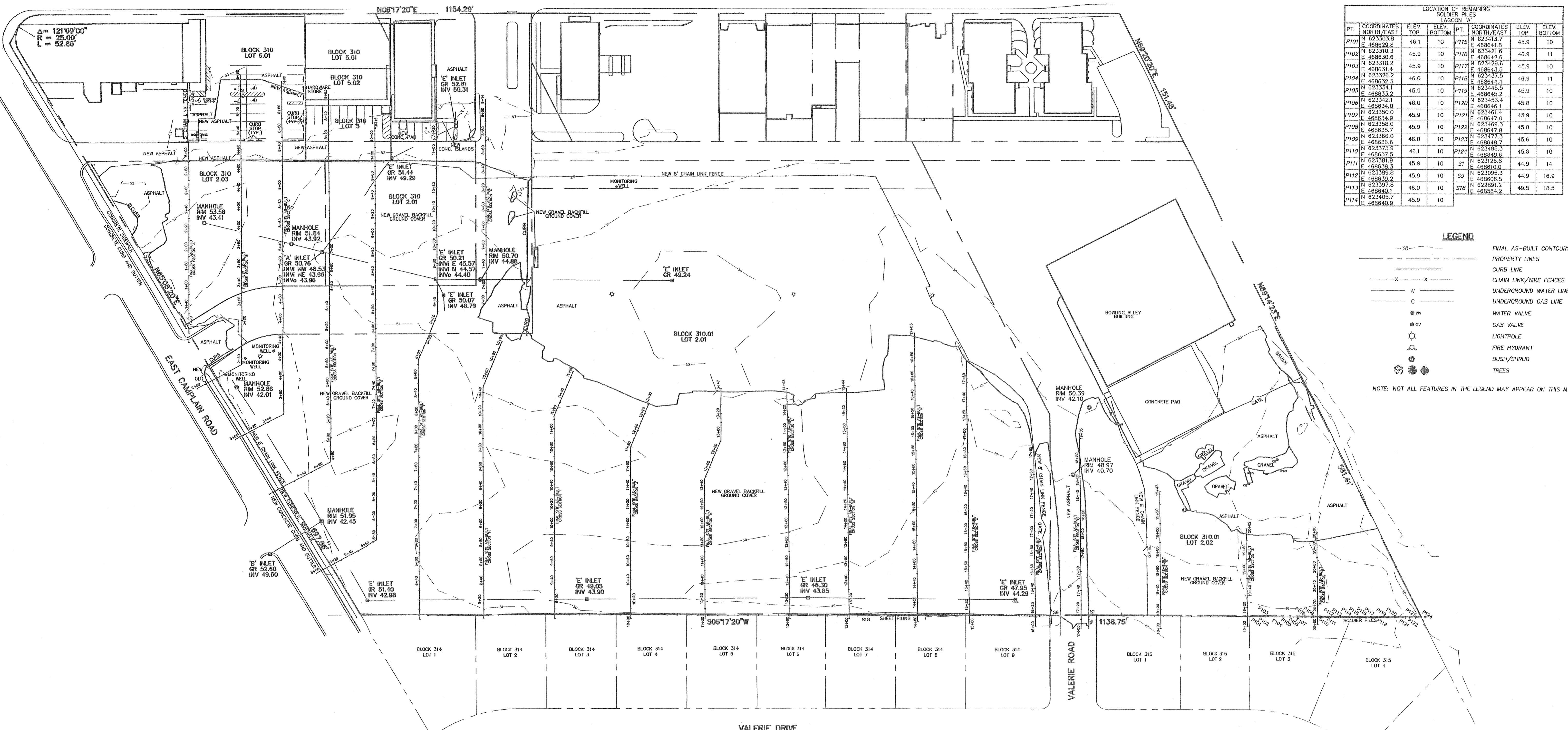
SOUTH MAIN STREET

LOCATION OF REMAINING SOLDIER PILES LAGOON 'A'							
PT.	COORDINATES NORTH/EAST	ELEV. TOP	ELEV. BOTTOM	PT.	COORDINATES NORTH/EAST	ELEV. TOP	ELEV. BOTTOM
P101	N 623403.8 E 468629.8	46.1	10	P115	N 623413.7 E 468641.8	45.9	10
P102	N 623410.3 E 468630.6	45.9	10	P116	N 623421.6 E 468642.6	46.9	11
P103	N 623418.2 E 468631.4	45.9	10	P117	N 623426.6 E 468643.5	45.9	10
P104	N 623426.2 E 468632.3	46.0	10	P118	N 623437.5 E 468644.4	46.9	11
P105	N 623434.1 E 468633.2	45.9	10	P119	N 623445.5 E 468645.2	45.9	10
P106	N 623442.1 E 468634.0	46.0	10	P120	N 623453.4 E 468646.1	45.8	10
P107	N 623450.0 E 468634.9	45.9	10	P121	N 623461.4 E 468647.0	45.9	10
P108	N 623458.0 E 468635.7	45.9	10	P122	N 623469.3 E 468647.8	45.8	10
P109	N 623466.0 E 468636.6	46.0	10	P123	N 623477.3 E 468648.7	45.6	10
P110	N 623473.9 E 468637.5	46.1	10	P124	N 623485.3 E 468649.6	45.6	10
P111	N 623481.9 E 468638.3	45.9	10	S1	N 623489.0 E 468650.0	44.9	14
P112	N 623489.8 E 468639.2	45.9	10	S9	N 623495.3 E 468650.5	44.9	16
P113	N 623497.8 E 468640.1	46.0	10	S18	N 623501.2 E 468651.2	49.5	18
P114	N 623405.7 E 468640.9	45.9	10				

LEGEND

---	38	---	FINAL AS-BUILT CONTOURS
---	---	---	PROPERTY LINES
---	---	---	CURB LINE
---	X X	---	CHAIN LINK/WIRE FENCES
---	W	---	UNDERGROUND WATER LINE
---	C	---	UNDERGROUND GAS LINE
●	WV	●	WATER VALVE
●	GV	●	GAS VALVE
●	---	●	LIGHTPOLE
●	---	●	FIRE HYDRANT
●	---	●	BUSH/SHRUB
●	---	●	TREES

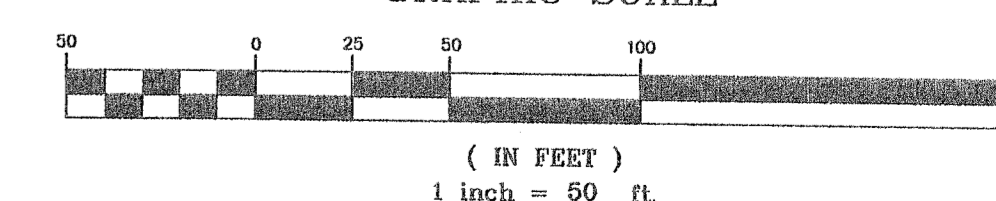
NOTE: NOT ALL FEATURES IN THE LEGEND MAY APPEAR ON THIS MAP.

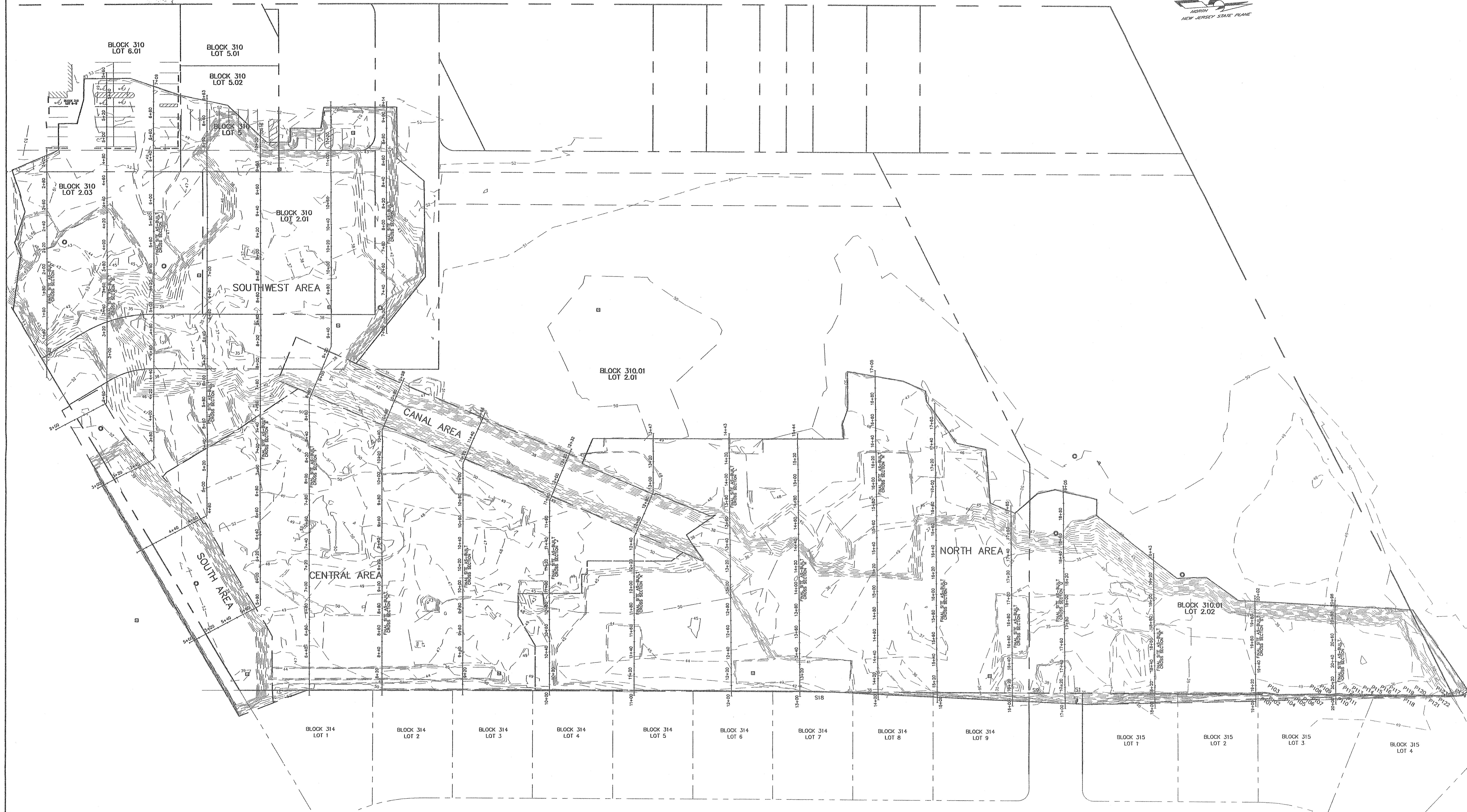


NOTES

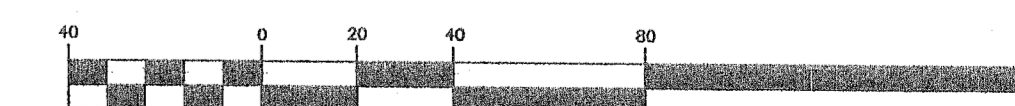
1. THIS MAP WAS CREATED TO SHOW THE AS-BUILT CONDITIONS AS OF JUNE 2008 AND SHOULD NOT BE USED FOR OTHER THAN ITS INTENDED PURPOSE.
2. PHYSICAL FEATURES SHOWN HEREON REPRESENT PRE CONSTRUCTION CONDITION UNLESS SPECIFICALLY NOTED AS NEW.

GRAPHIC SCALE





GRAPHIC SCALE



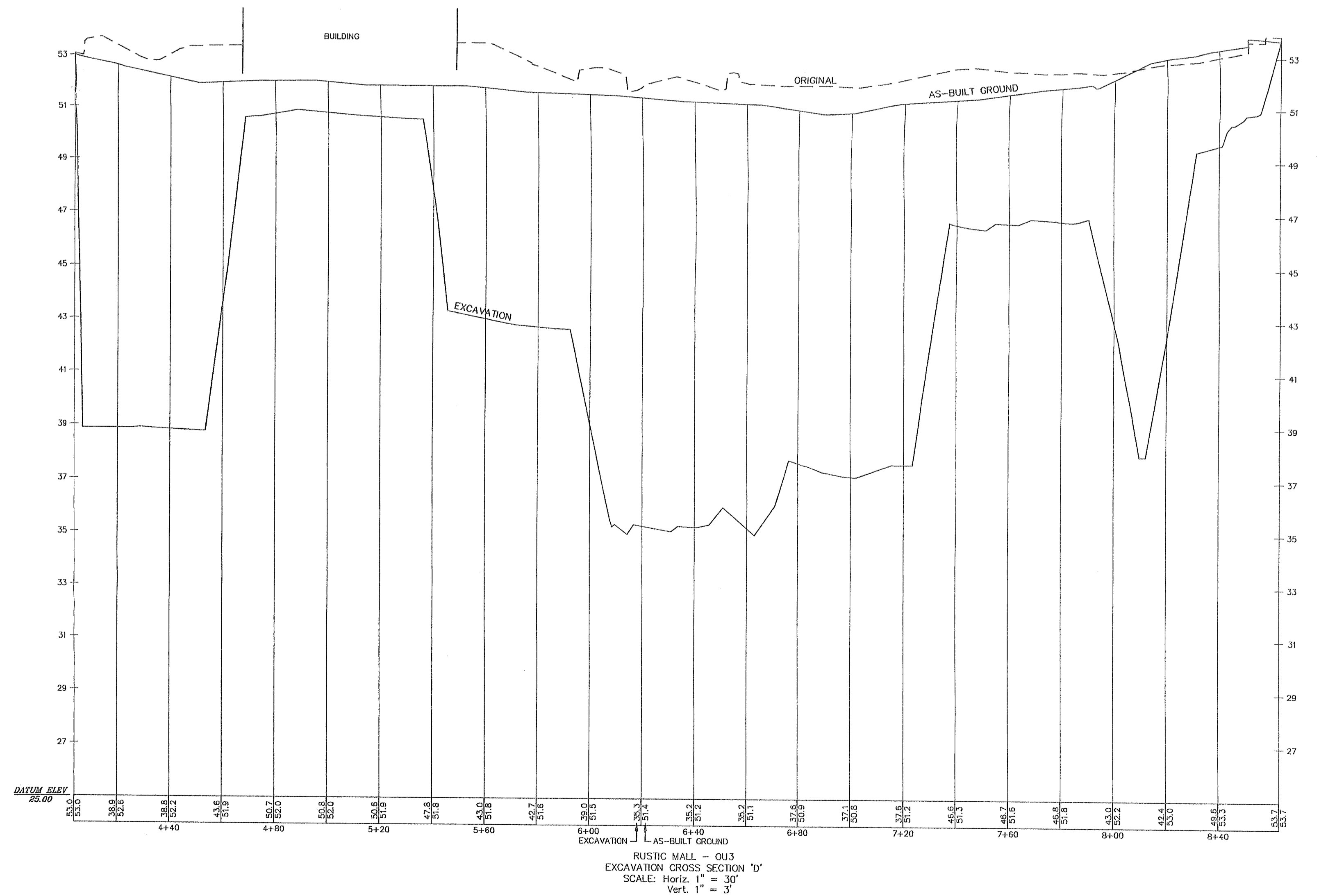
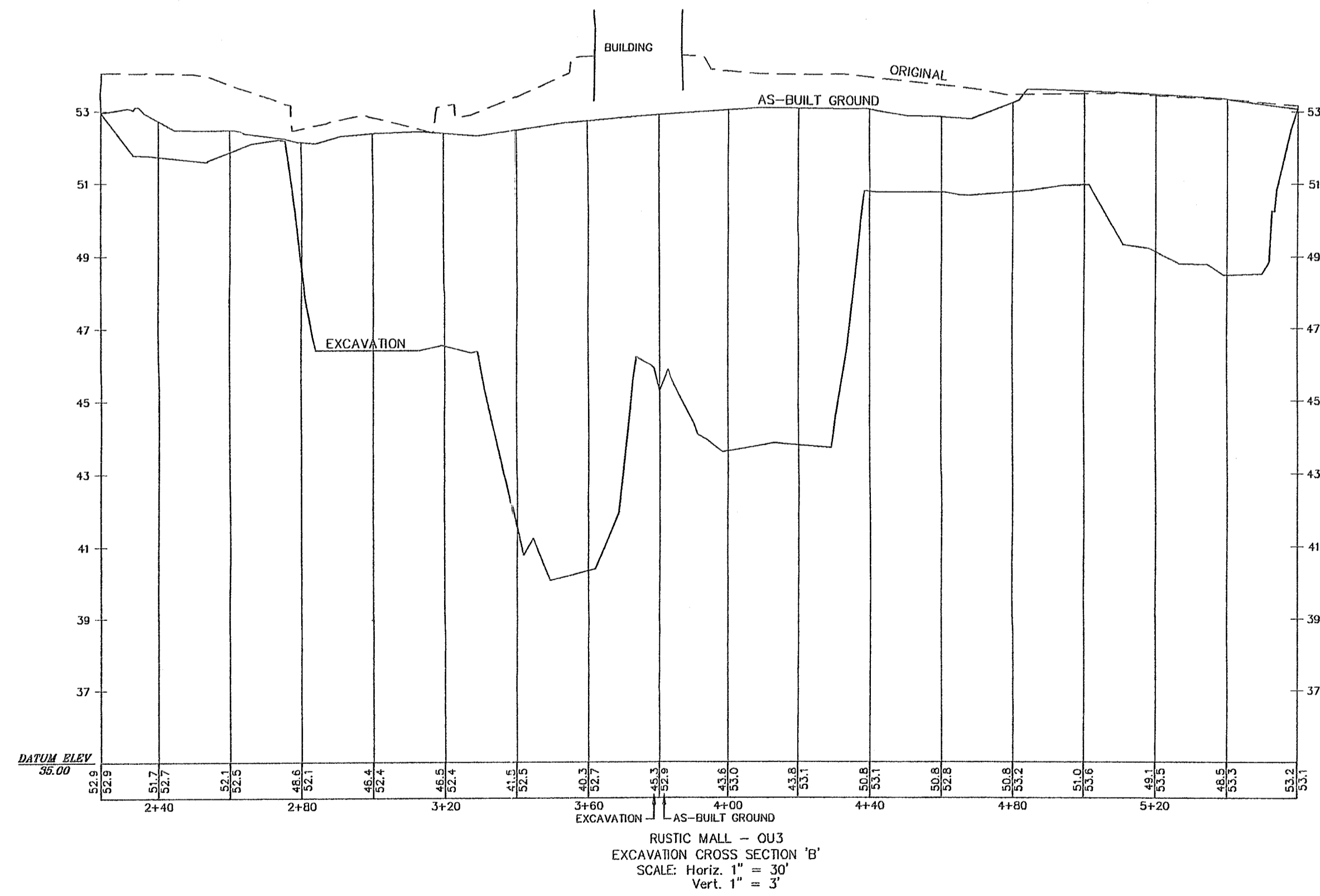
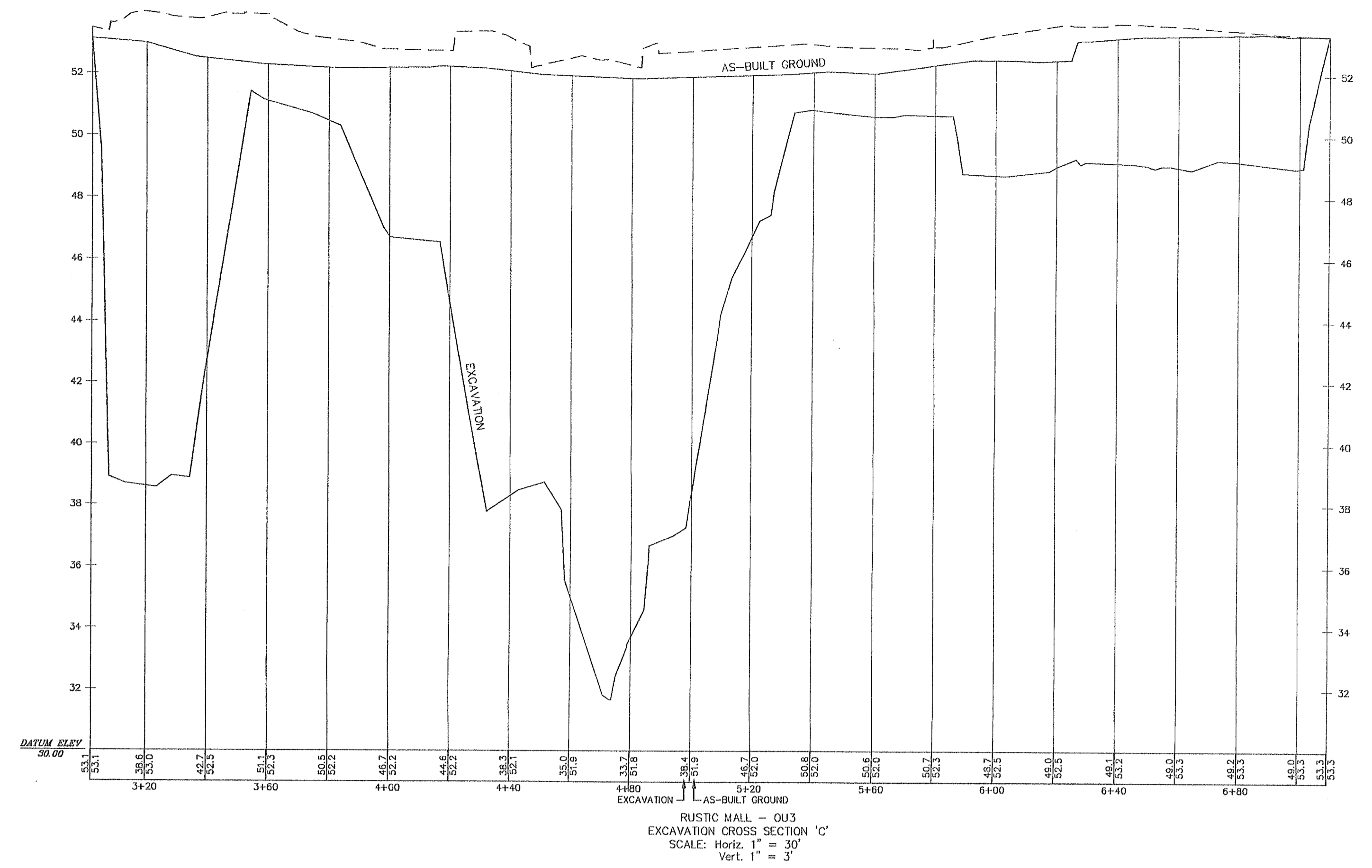
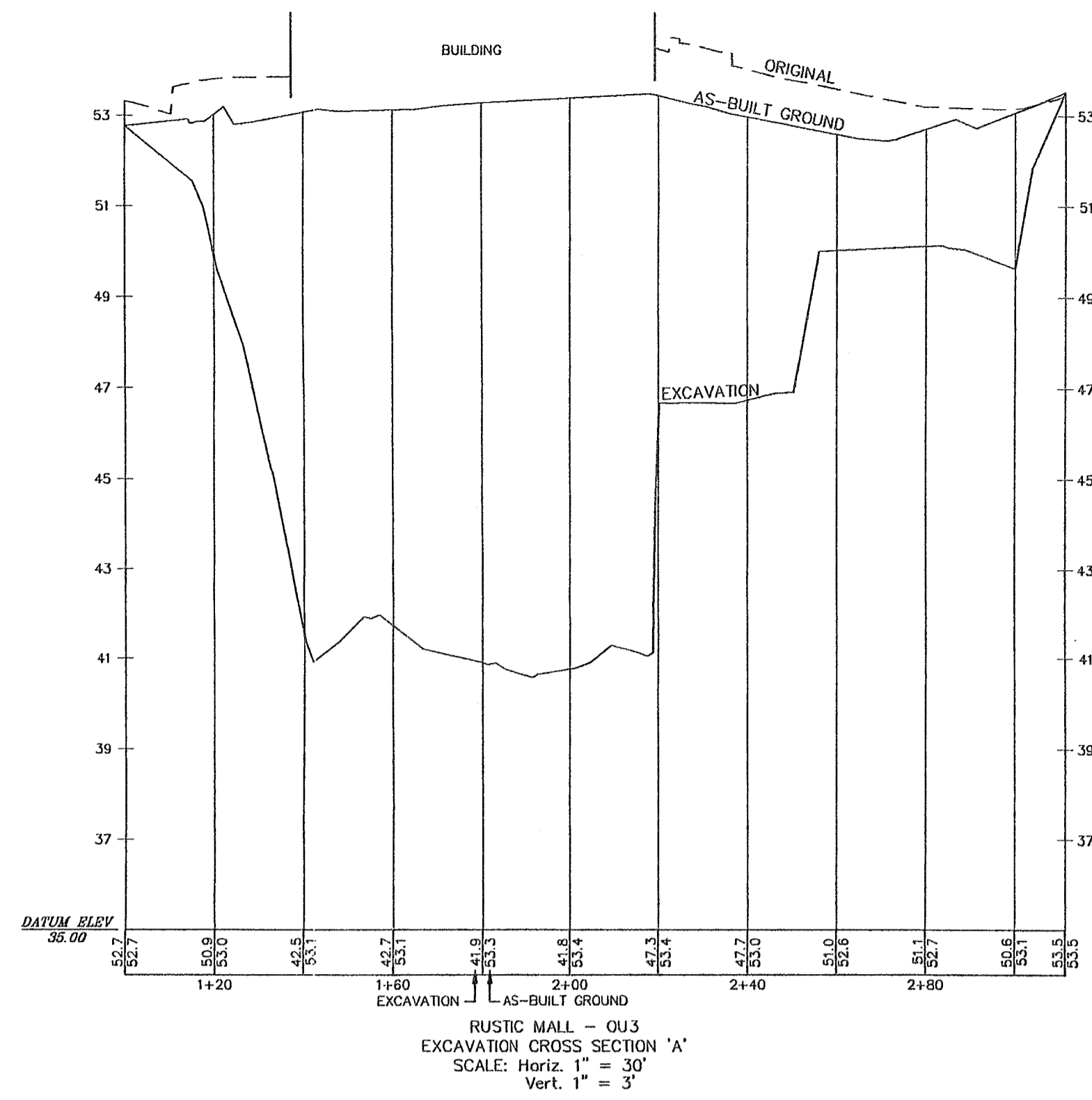
(IN FEET)
1 inch = 40 ft.

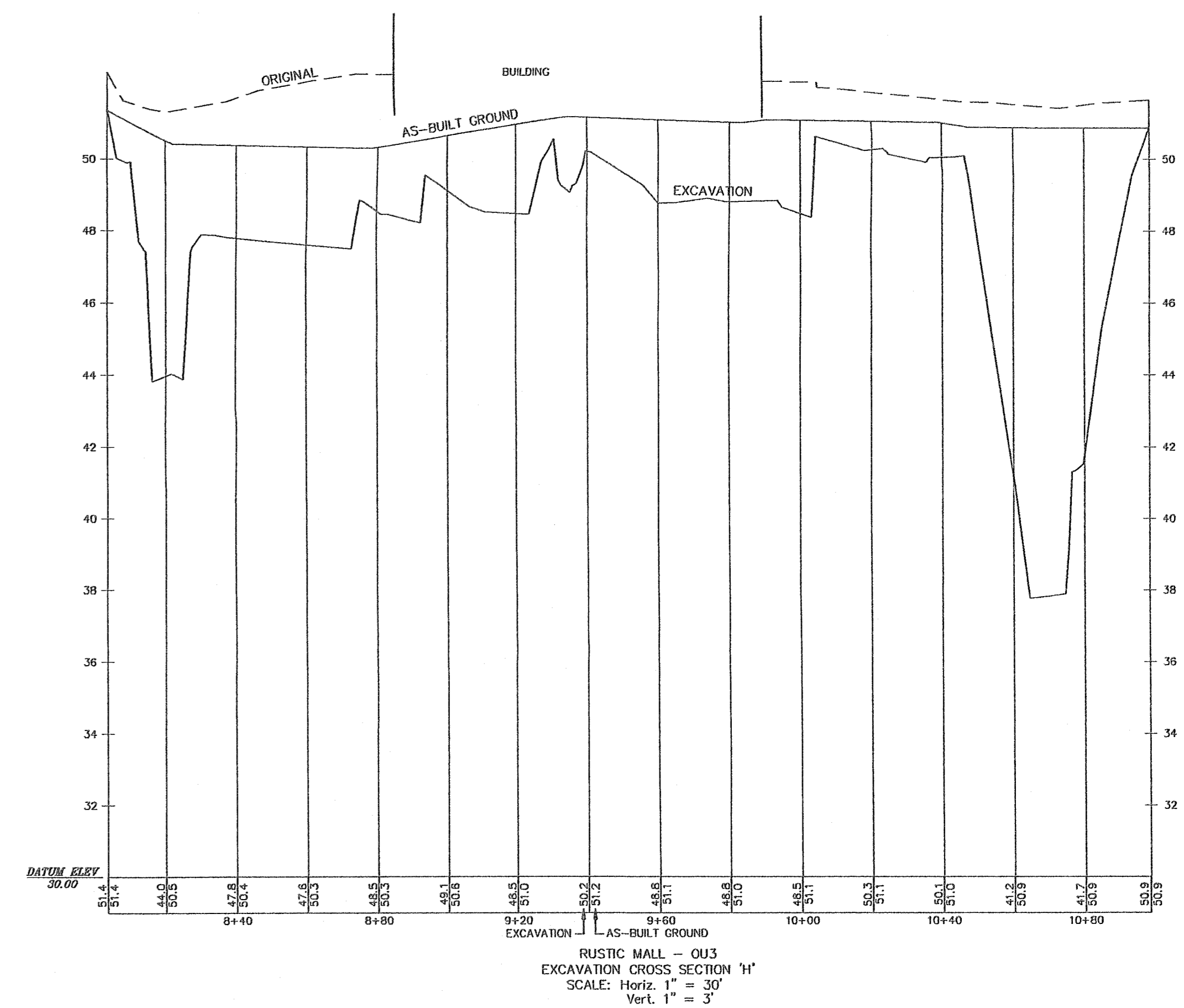
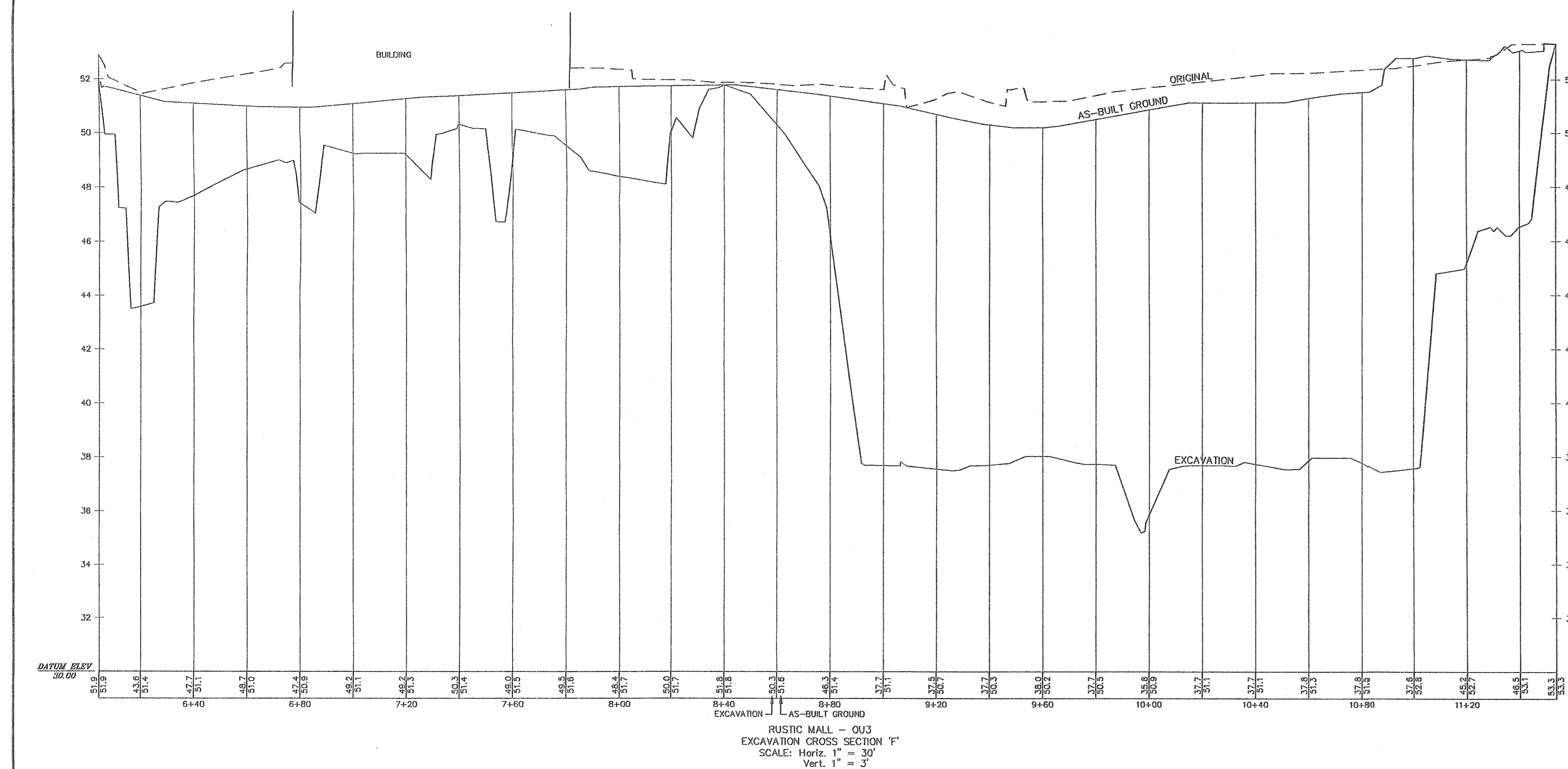
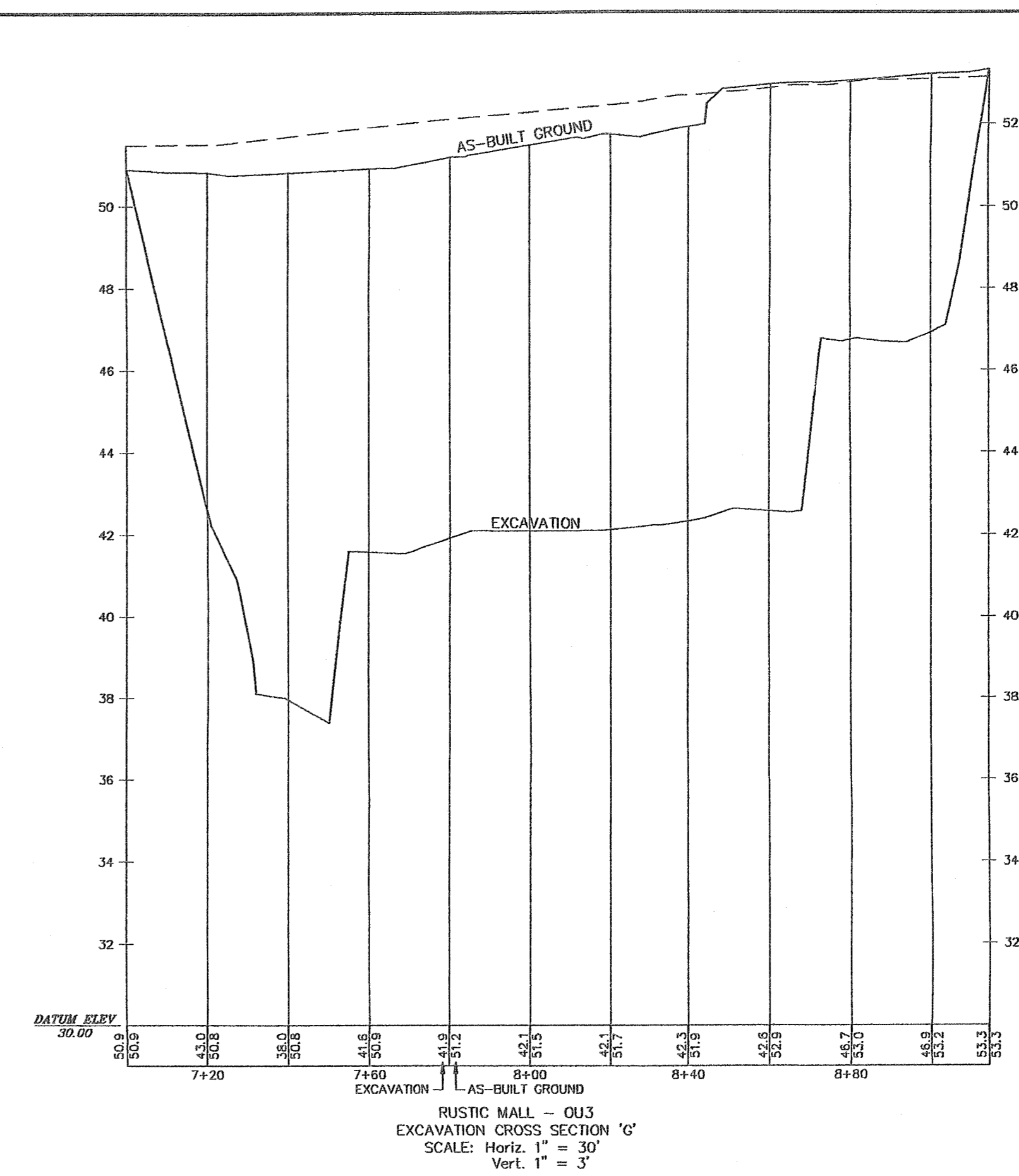
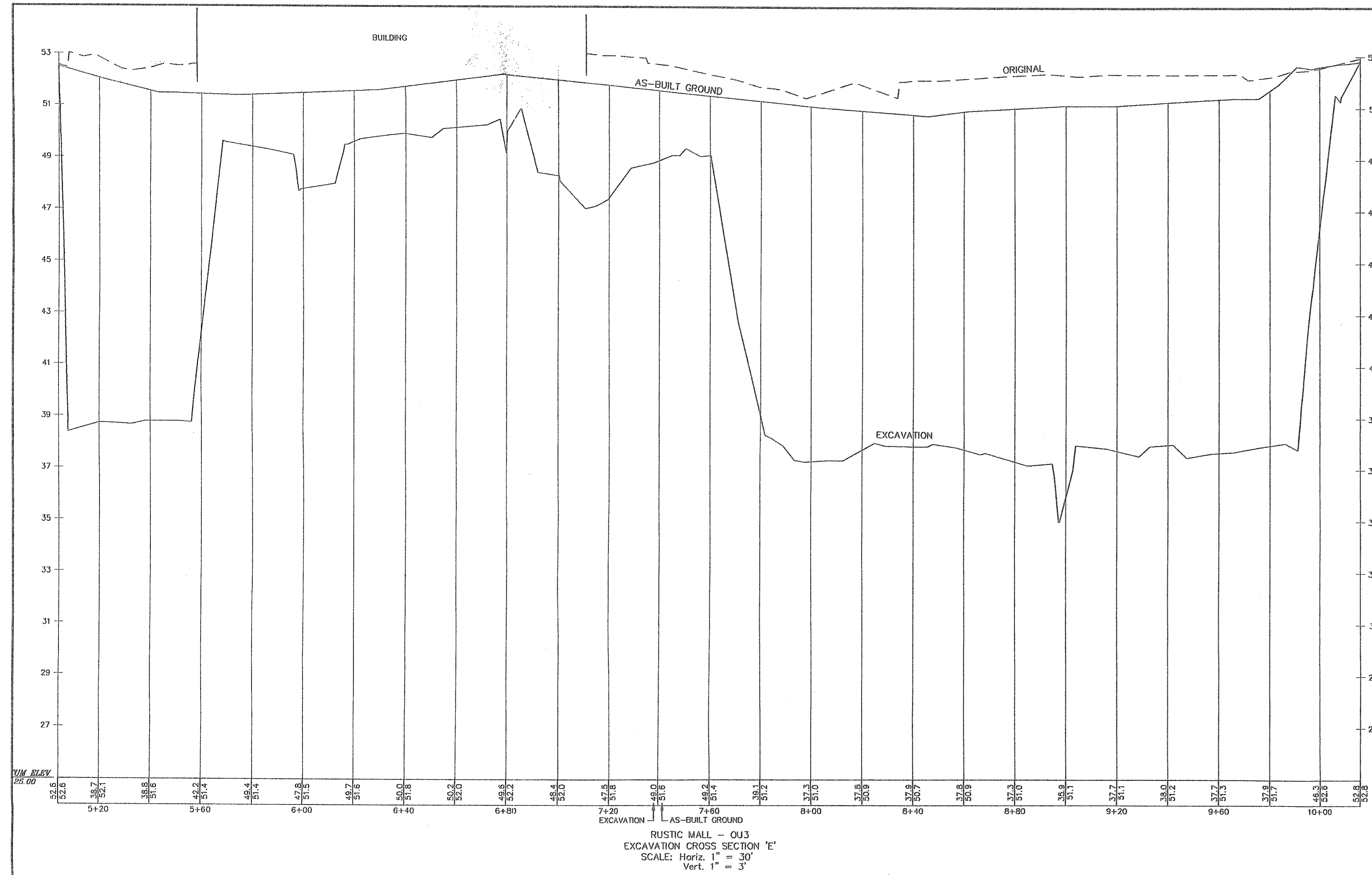


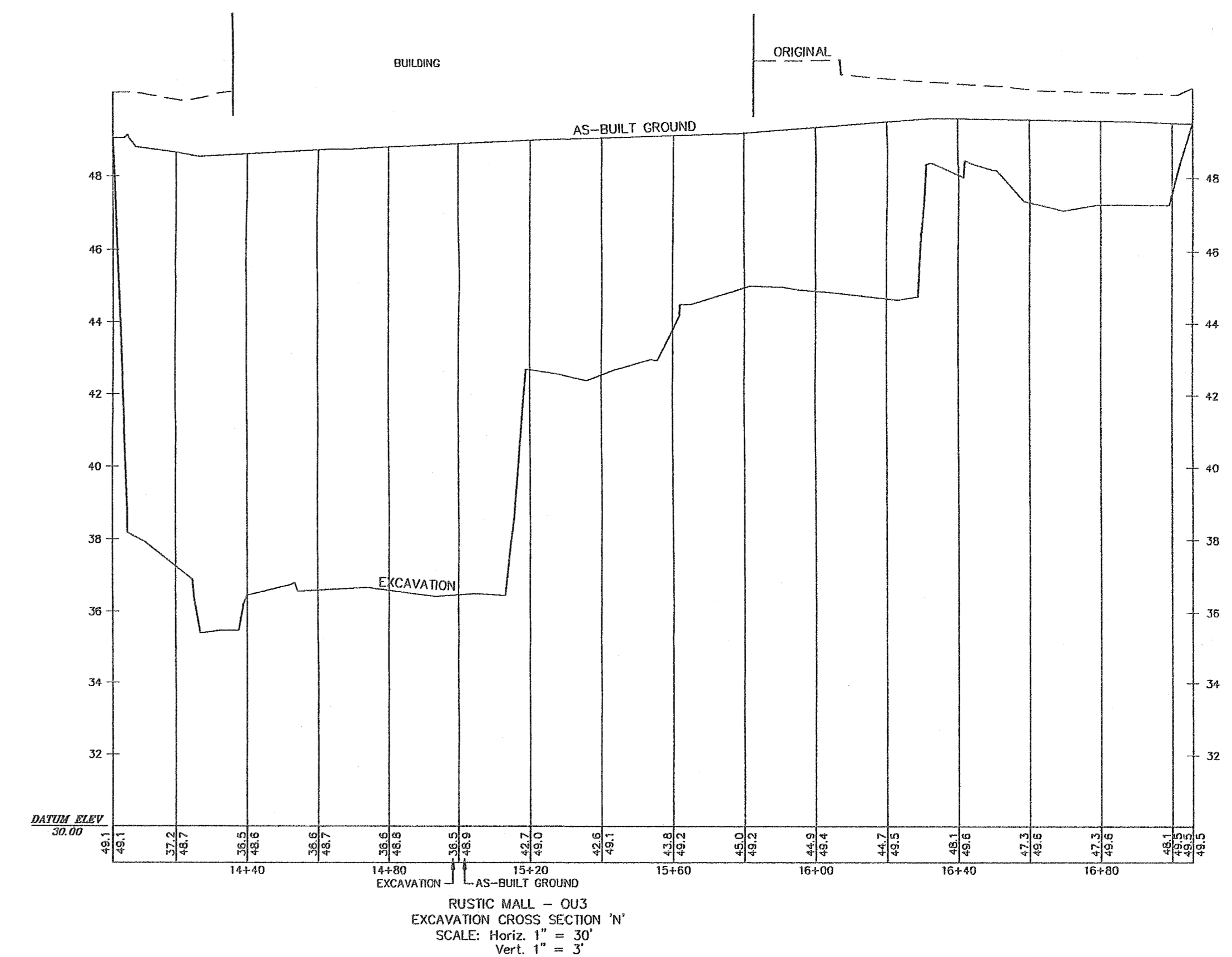
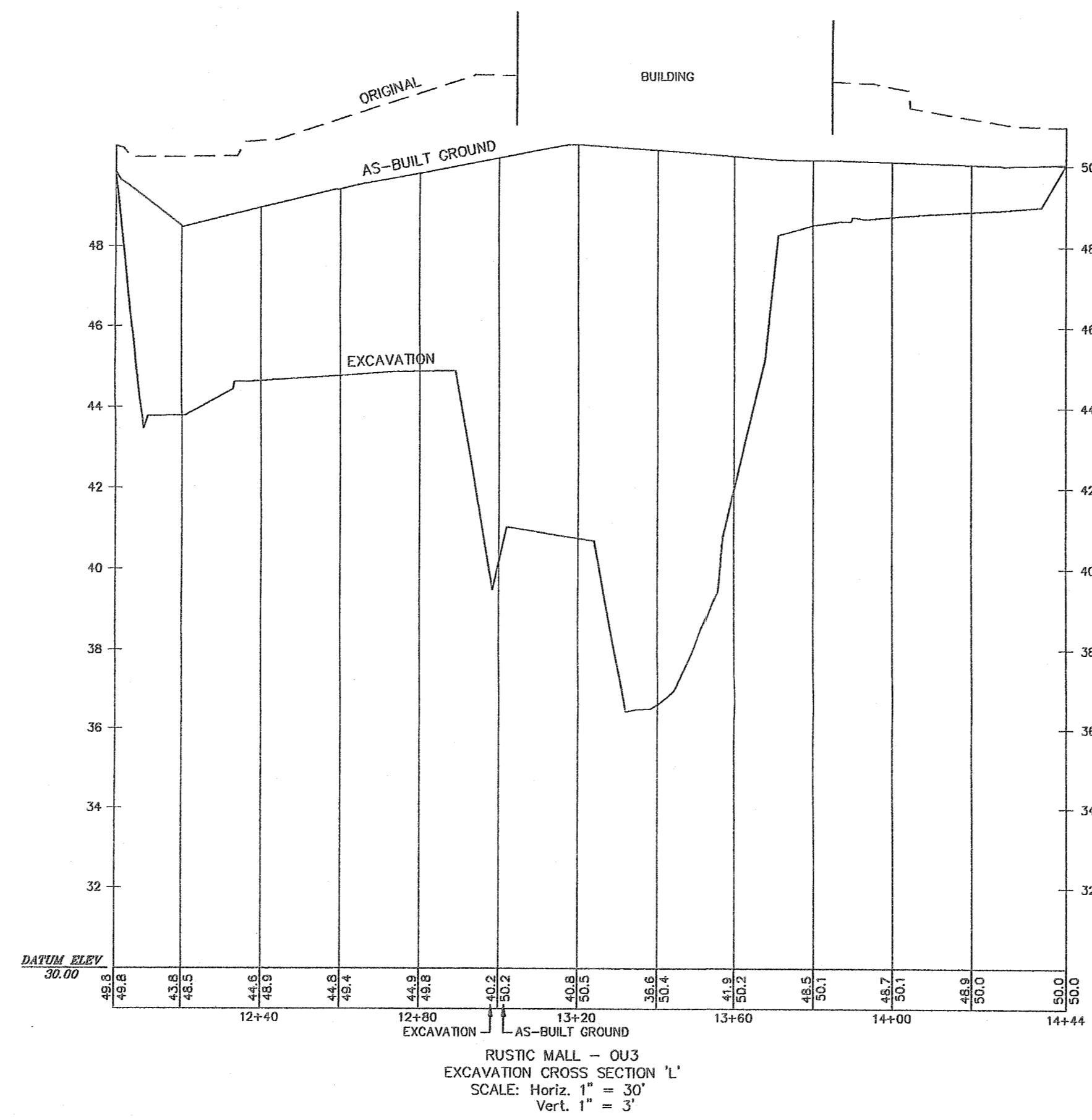
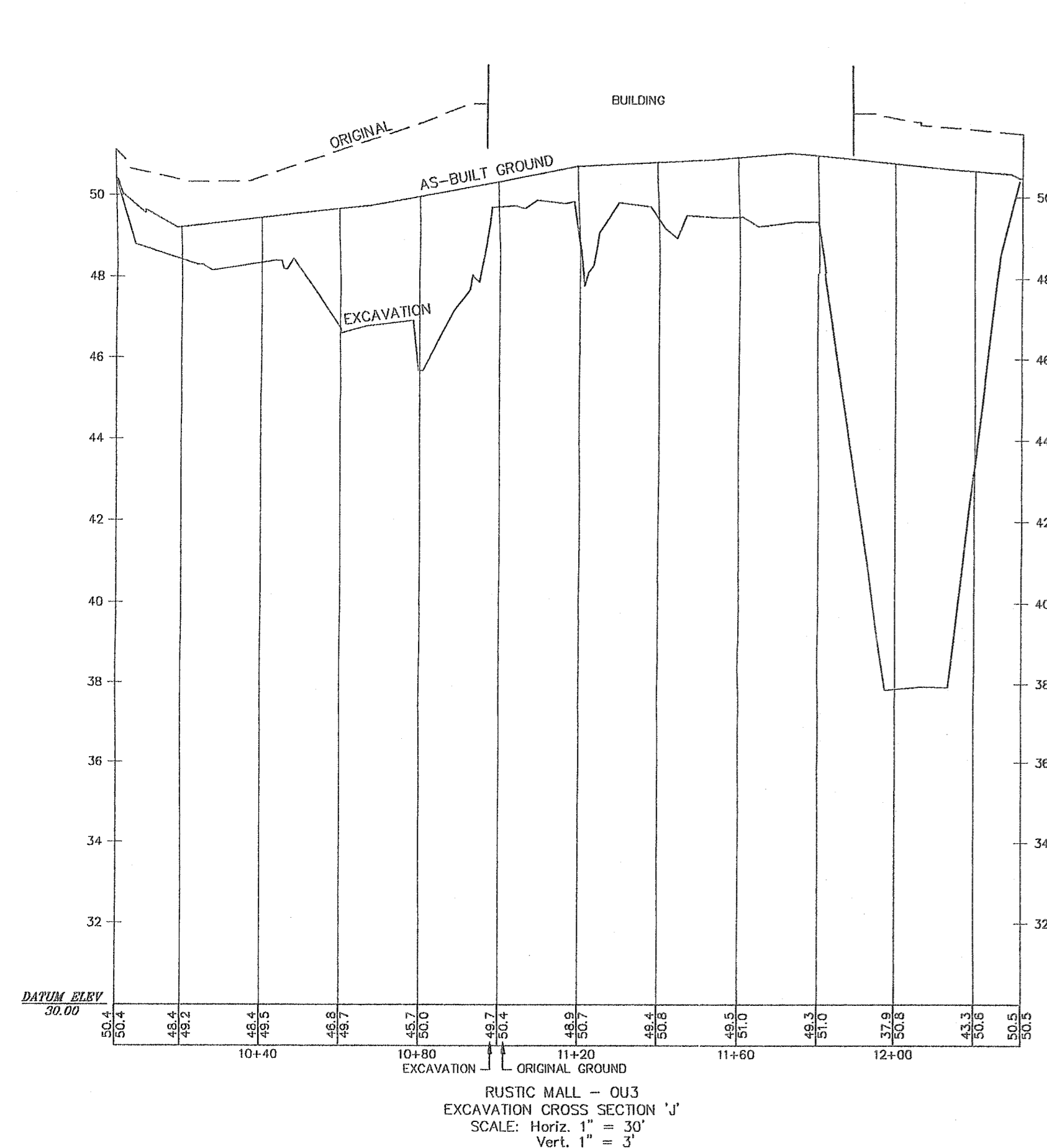
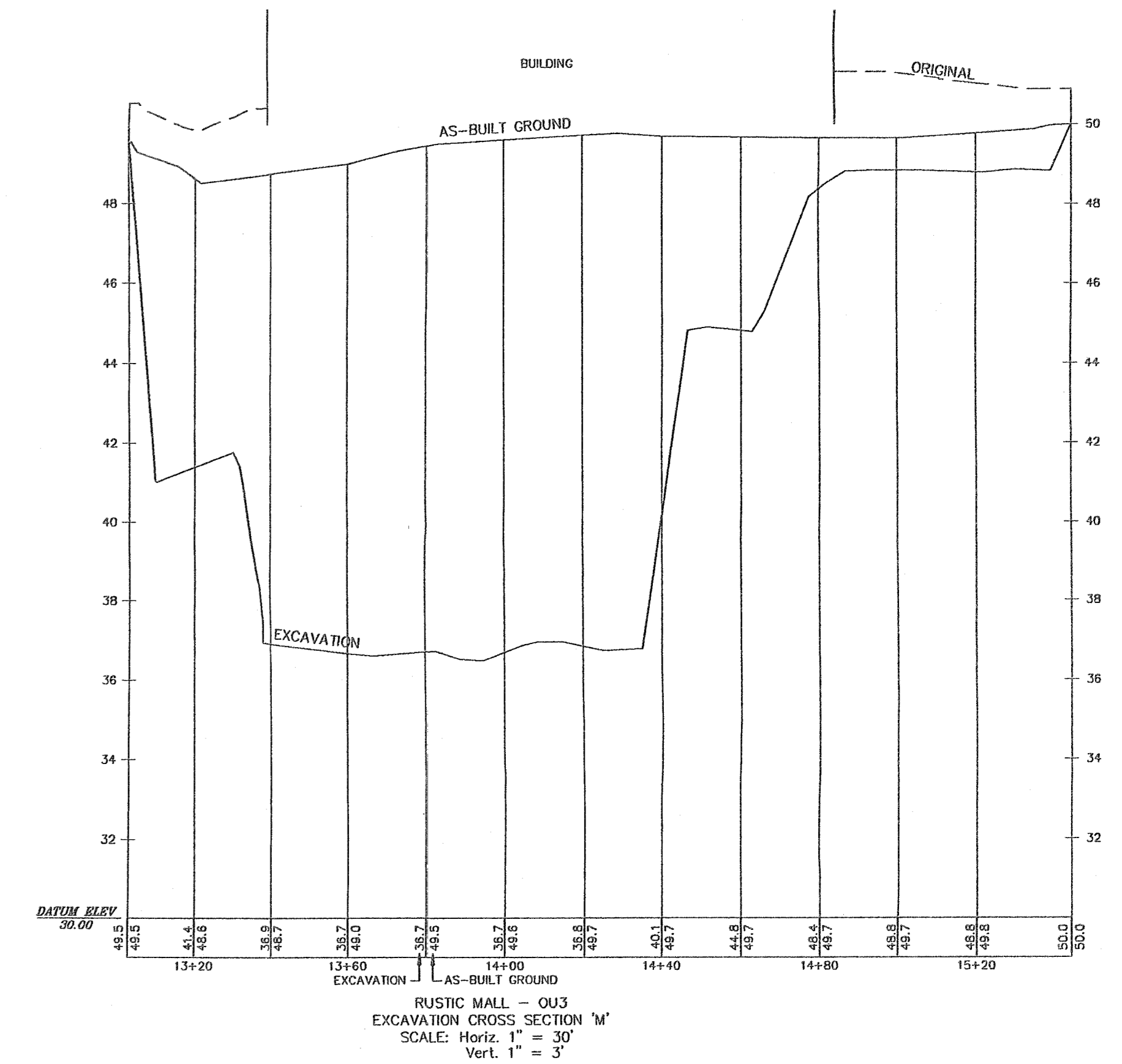
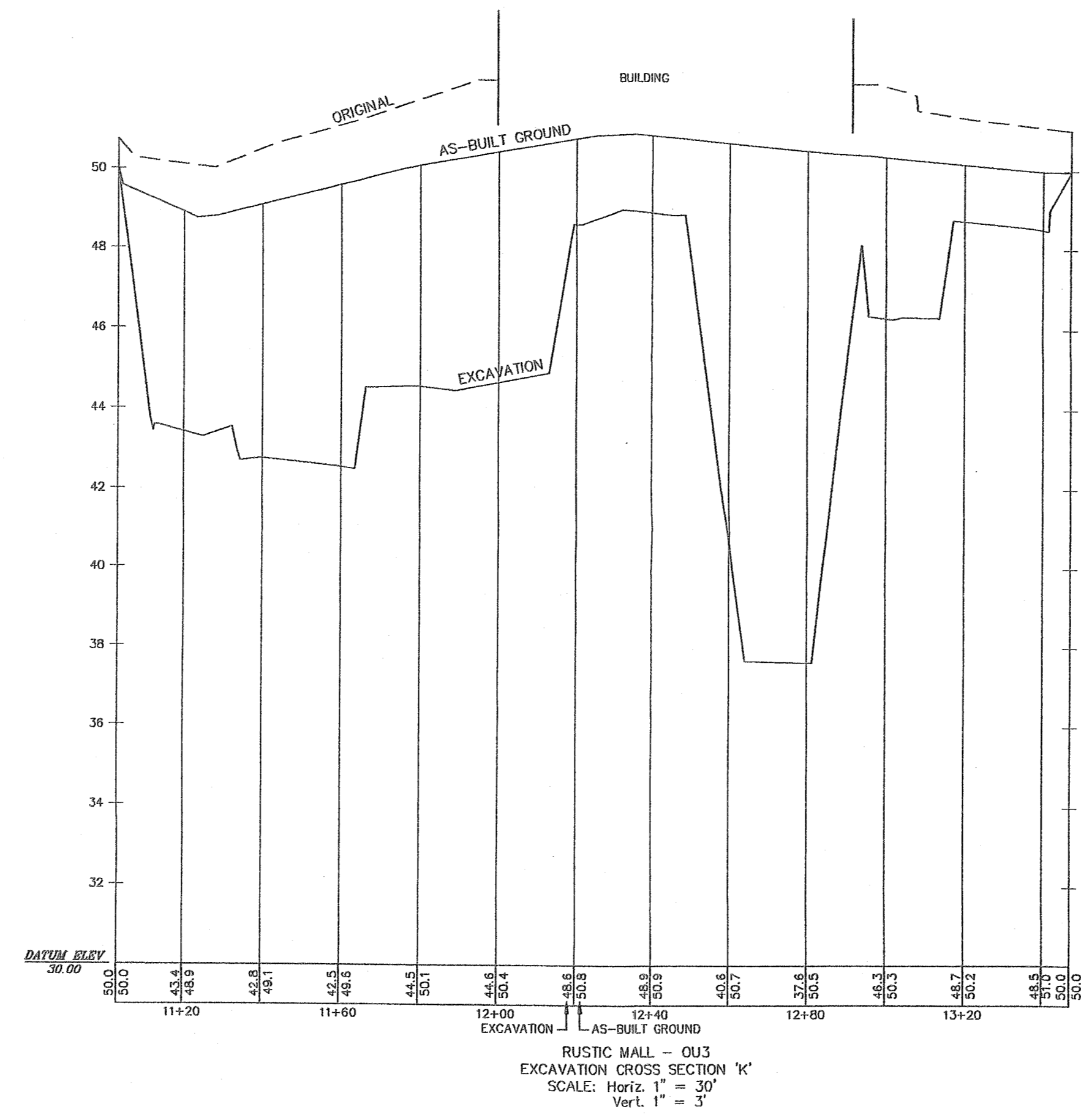
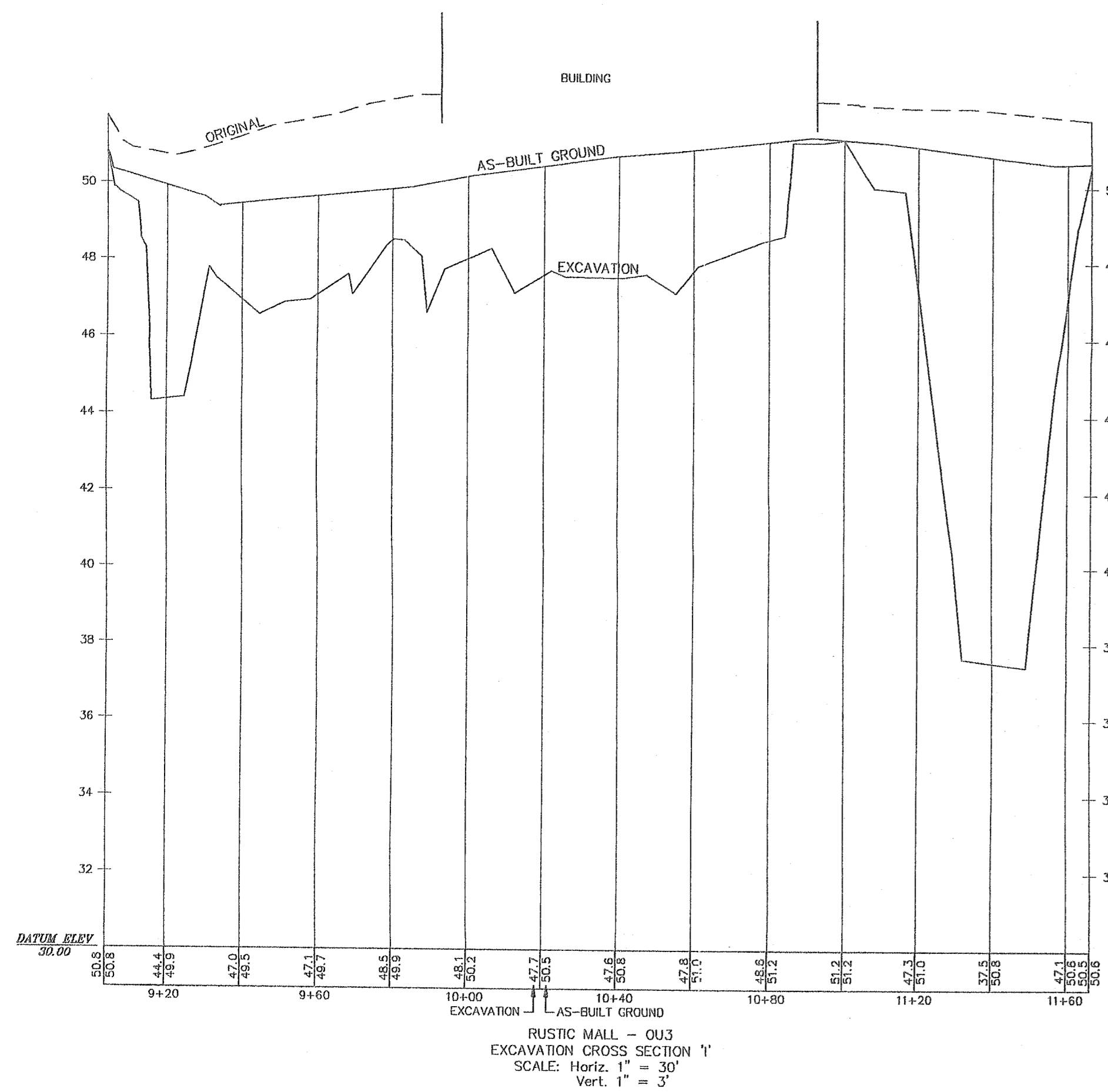
US Army Corps
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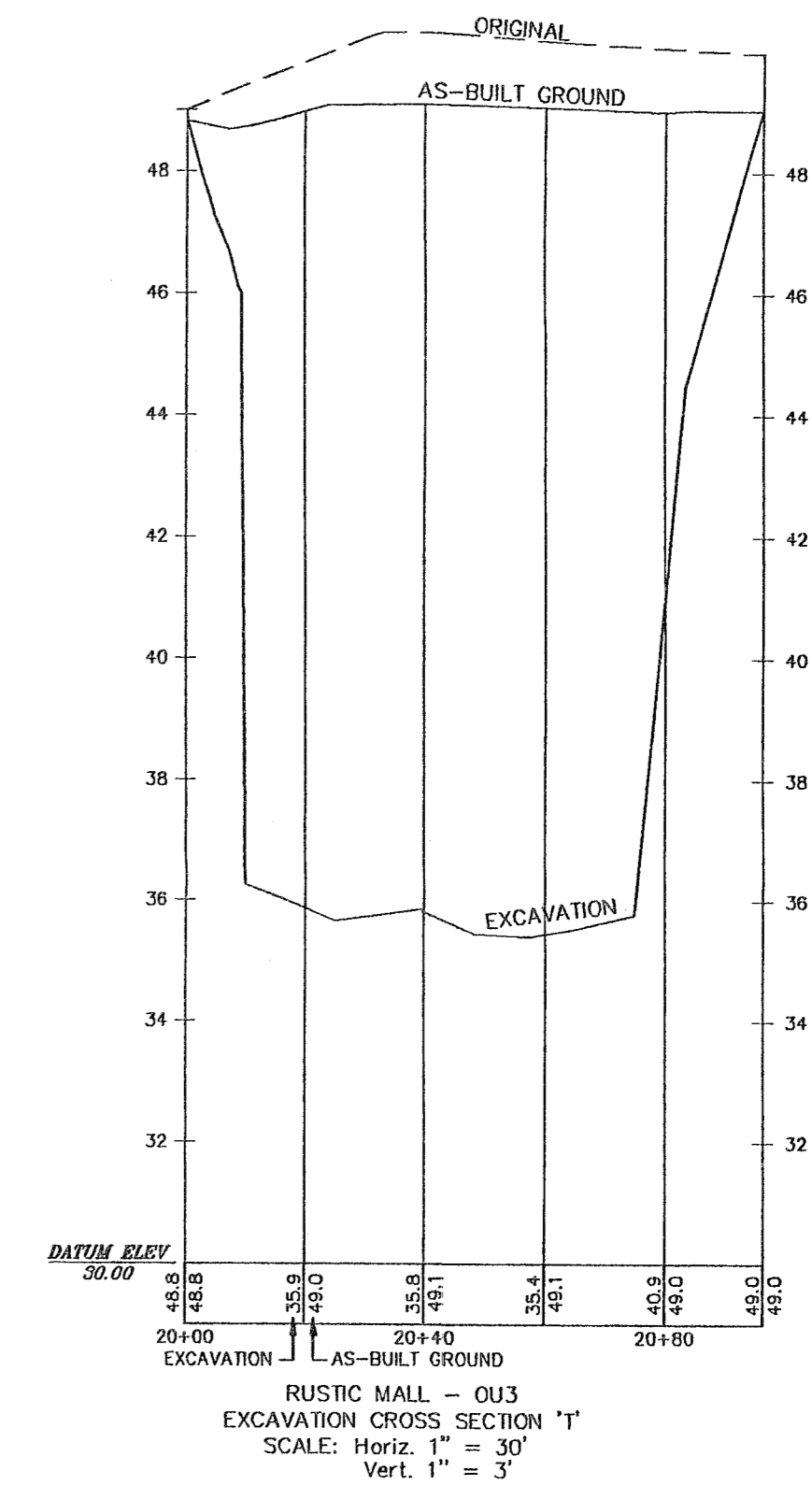
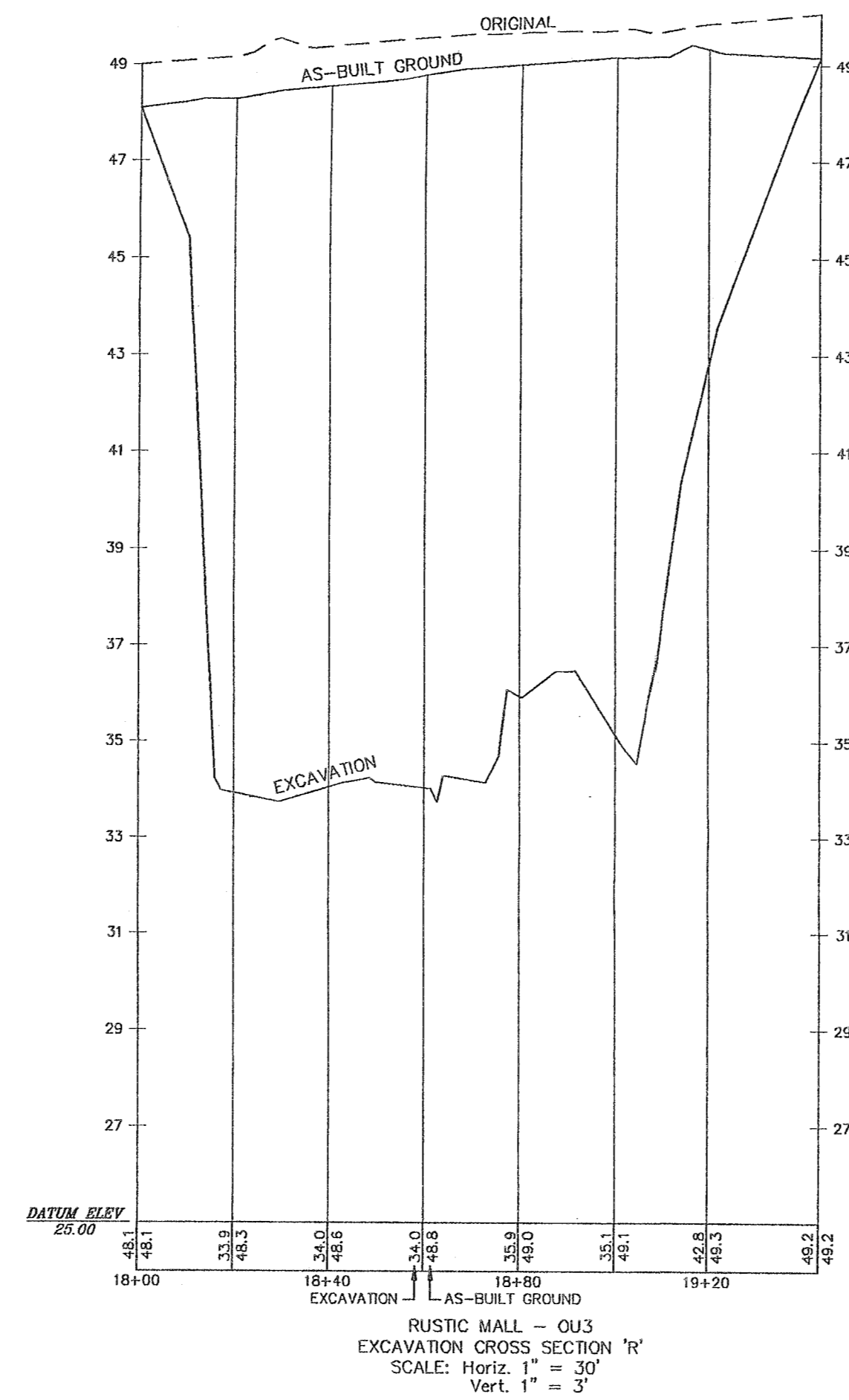
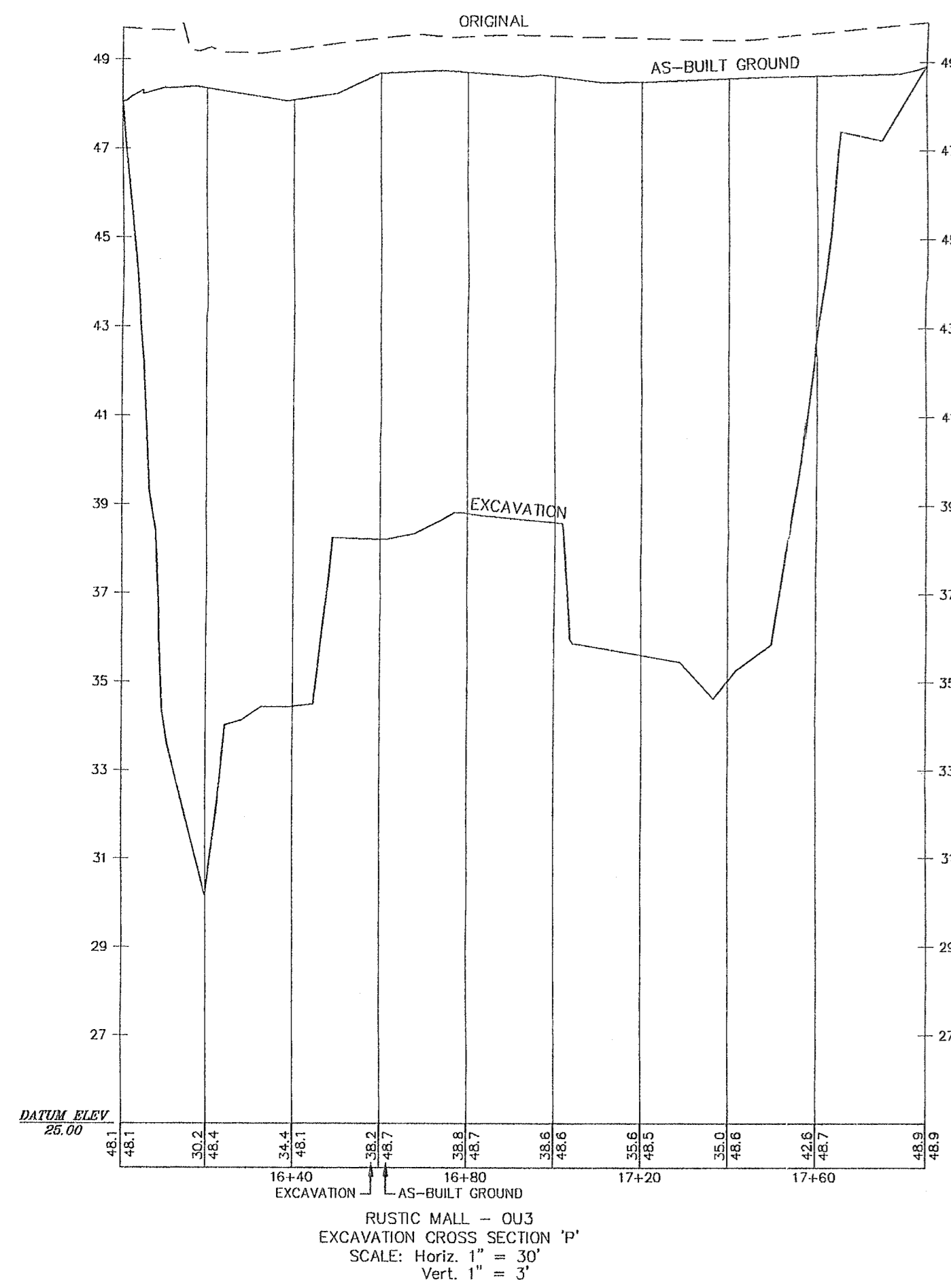
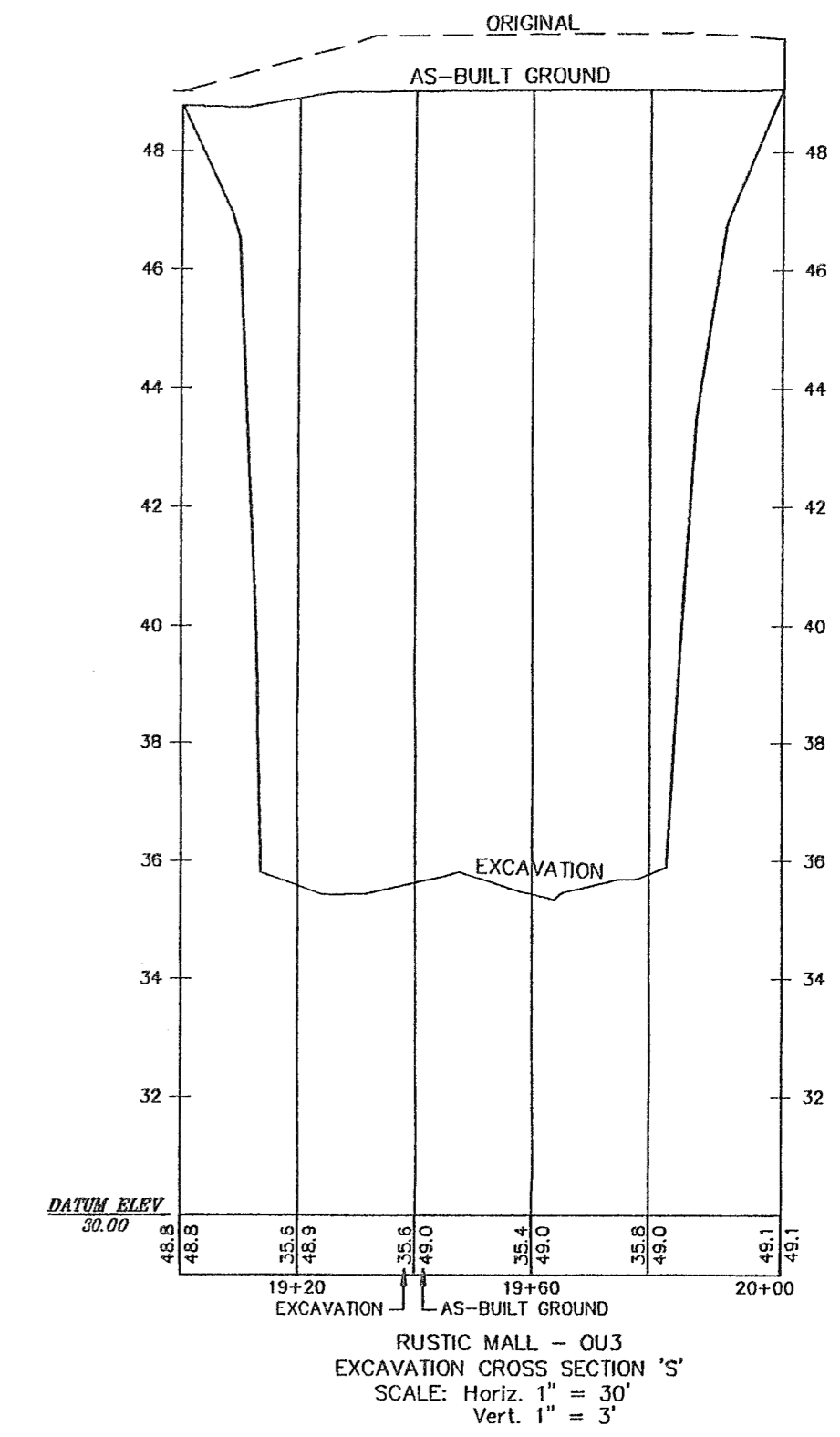
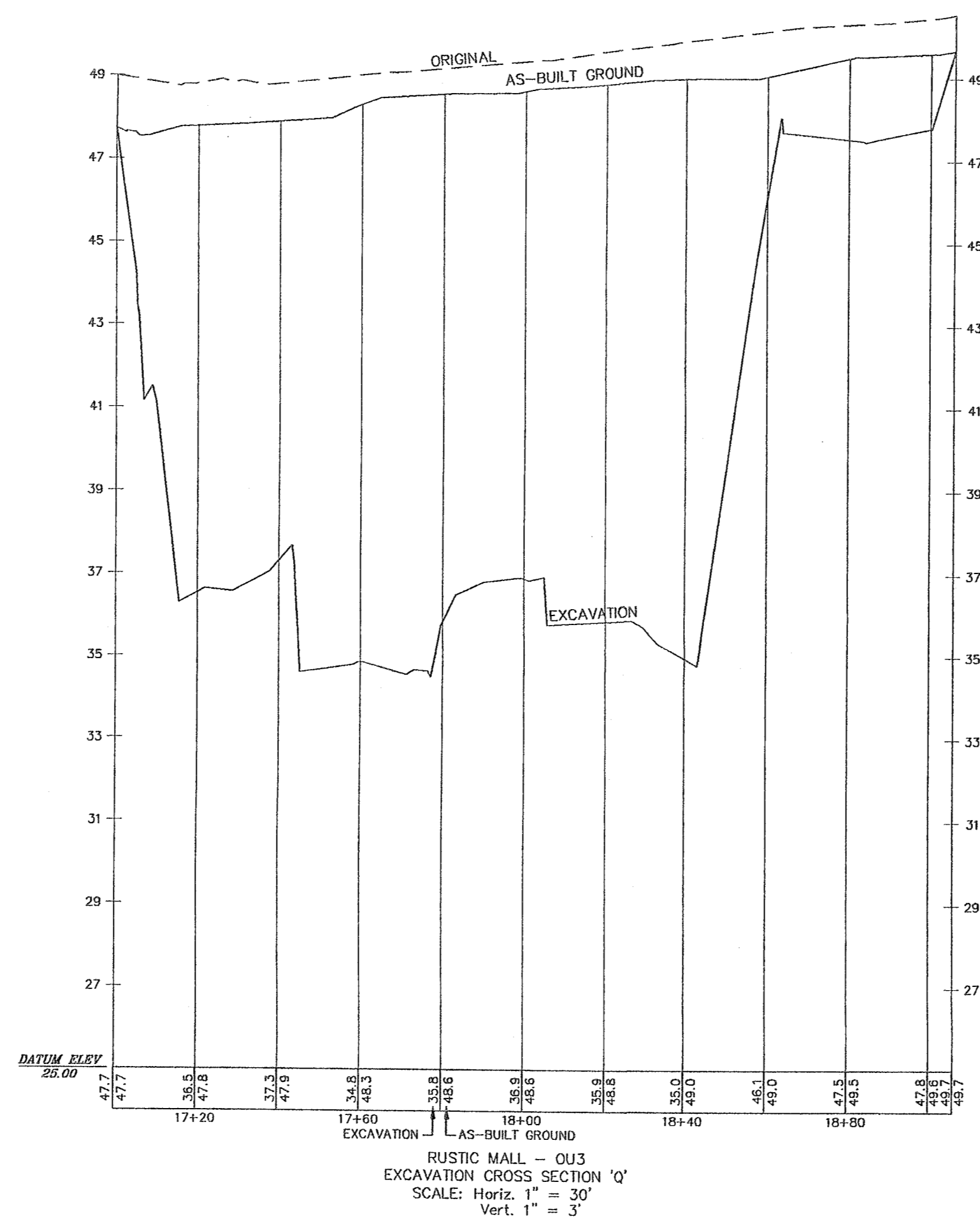
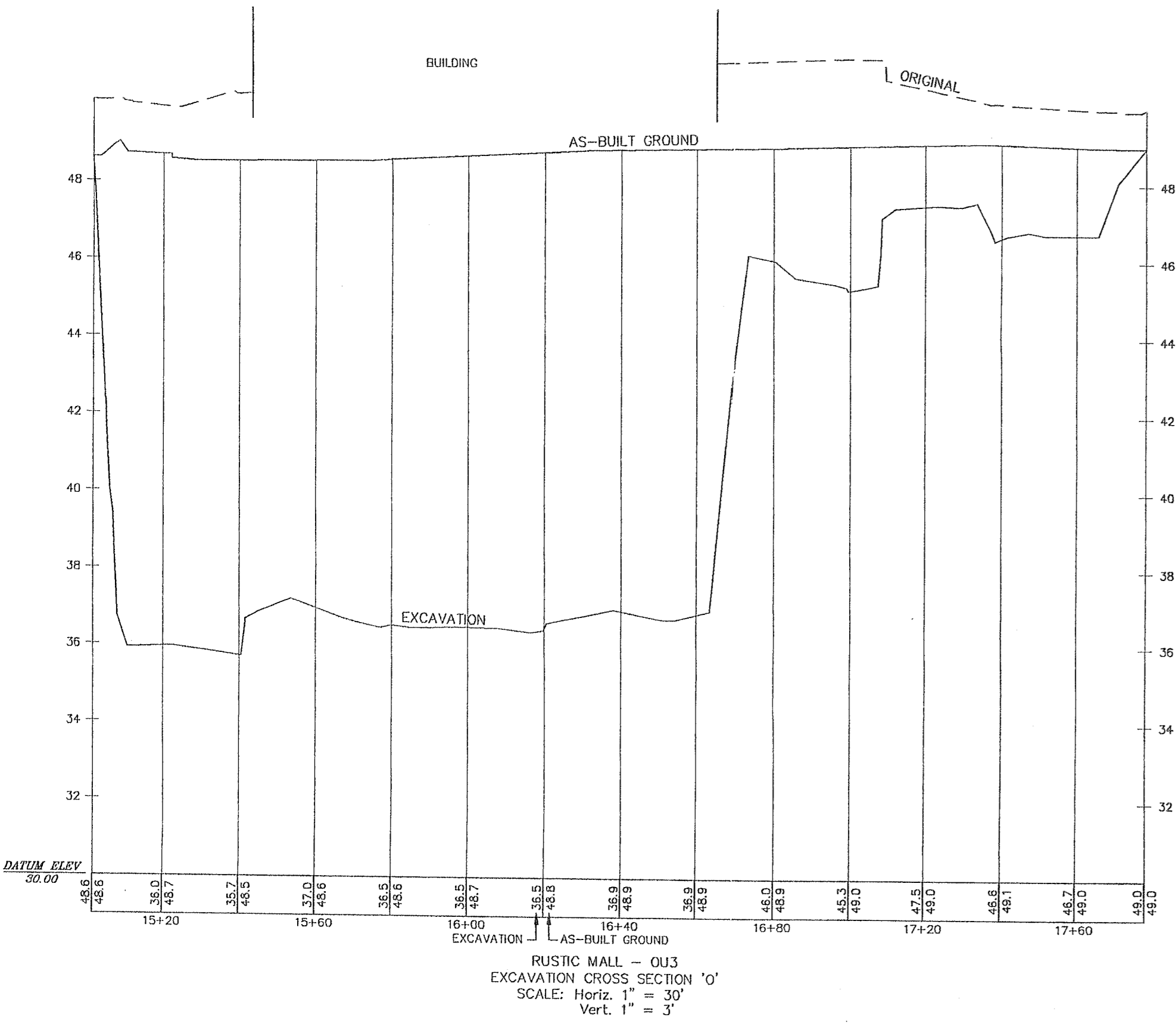
FINAL SITE AS-BUILTS

OU3 - RUSTIC MALL
FEDERAL CREOSOTE SUPERFUND SITE
BOROUGH OF MANVILLE, SOMERSET COUNTY, N.J.
Sheet 2 of 6









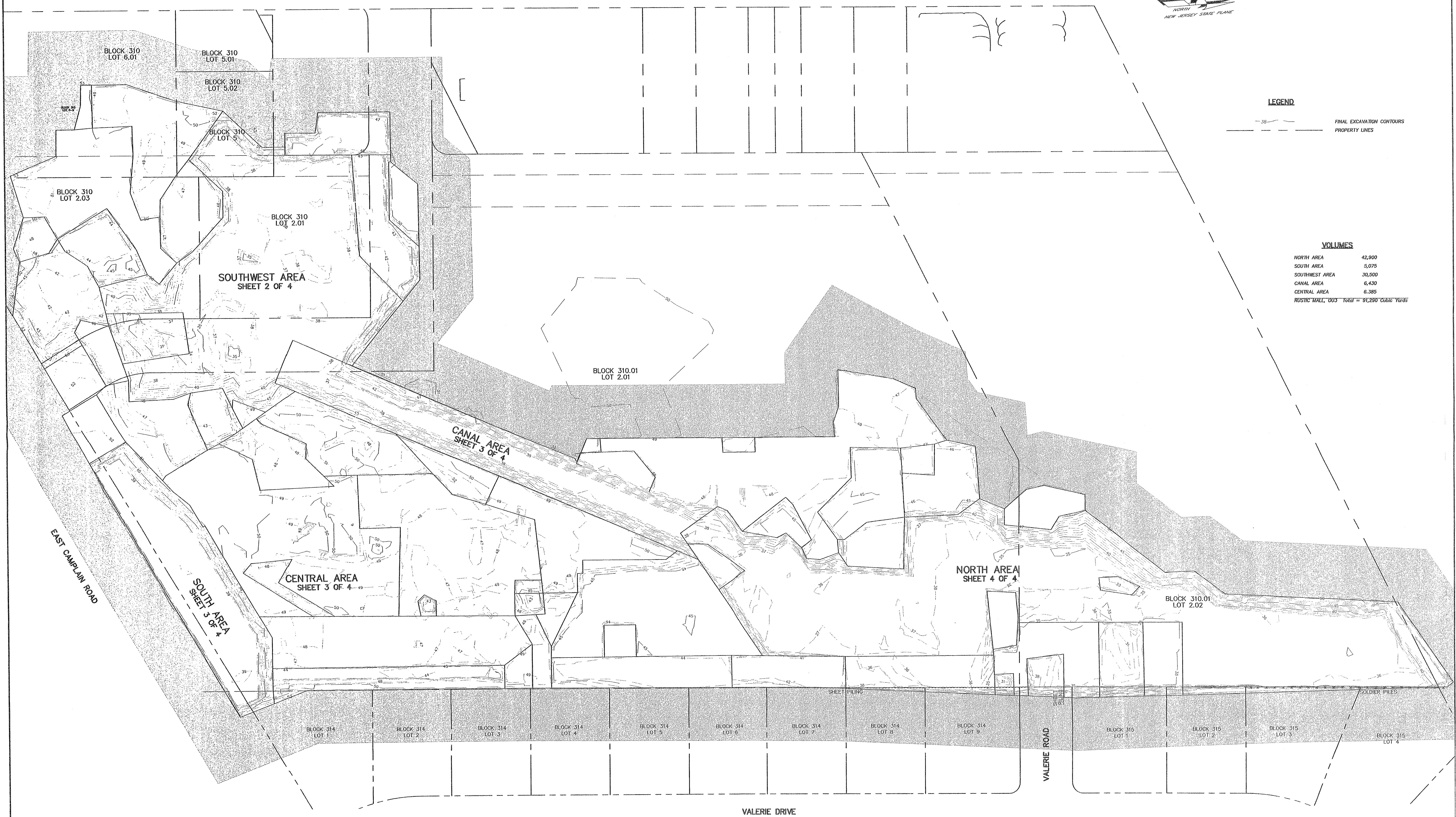


LEGEND

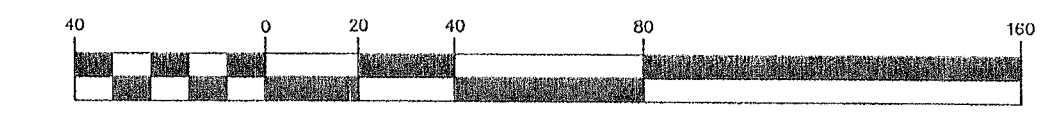
--- 38 --- FINAL EXCAVATION CONTOURS
--- --- PROPERTY LINES

VOLUMES

NORTH AREA	42,900
SOUTH AREA	5,075
SOUTHWEST AREA	30,500
CANAL AREA	6,430
CENTRAL AREA	6,385
RUSTIC MALL, OU3 Total = 91,290 Cubic Yards	



GRAPHIC SCALE





FINAL EXCAVATION
COORDINATES
SOUTHWEST AREA

POINT NO.	NORTH	EAST
200	622189.6	468022.2
201	622197.2	468061.9
202	622184.4	468089.4
203	622188.8	468102.0
204	622176.3	468151.2
205	622217.3	468097.0
206	622227.0	468085.3
207	622216.8	468063.5
208	622234.8	468008.6
209	622237.7	467984.1
210	622254.9	467985.8
211	622263.3	467965.2
212	622265.9	467945.6
213	622276.1	467946.6
214	622272.3	467986.2
215	622276.6	468062.6
216	622232.6	468097.2
217	622252.1	468113.2
218	622260.9	468134.1
219	622264.1	468159.6
220	622265.6	468171.5
221	622239.9	468162.9
222	622232.7	468173.7
223	622238.5	468186.3
224	622200.6	468203.8
225	622274.5	468207.8
226	622278.4	468223.7
227	622256.7	468225.9
228	622246.7	468233.2
229	622219.7	468245.1
231	622268.5	468279.8
233	622299.2	468320.6
234	622302.8	468316.6
235	622276.6	468243.2
236	622318.8	468245.8
237	622335.4	468241.9
238	622331.5	468252.5
239	622345.0	468297.1
240	622338.2	468205.7
241	622336.7	468166.8
242	622307.6	468127.7
243	622300.3	468104.3
244	622317.8	468137.8
245	622336.5	468120.3
246	622323.1	468105.2
247	622325.9	468076.2
248	622307.5	468077.1
249	622300.5	468050.8
250	622307.4	468016.6
251	622309.7	467988.7
252	622309.0	467949.9
253	622354.1	467970.7
254	622396.8	467984.8
255	622359.4	468026.2
256	622387.7	468059.3
257	622385.1	468083.8
258	622352.2	468112.1
259	622365.7	468241.1
260	622373.2	468260.6
261	622380.7	468280.0
262	622374.3	468252.8
263	622404.0	468267.7
293	622433.8	468251.8
294	622416.0	468242.1
295	622436.9	468204.6
296	622490.4	468234.9
297	622429.7	468022.5
298	622450.2	468032.2
299	622451.1	468024.7
300	622452.5	468011.8
301	622481.2	468015.0
302	622486.0	467996.2
303	622554.4	468003.7
304	622550.3	468043.3
305	622513.4	468039.3
306	622549.6	468050.3
307	622547.6	468050.1
308	622572.4	468074.1
309	622542.0	468104.3
310	622567.0	468131.9
311	622509.7	468134.1
312	622564.2	468162.6
313	622546.0	468180.4

LEGEND

--- 30 --- FINAL EXCAVATION CONTOURS
--- --- PROPERTY LINES

GRAPHIC SCALE



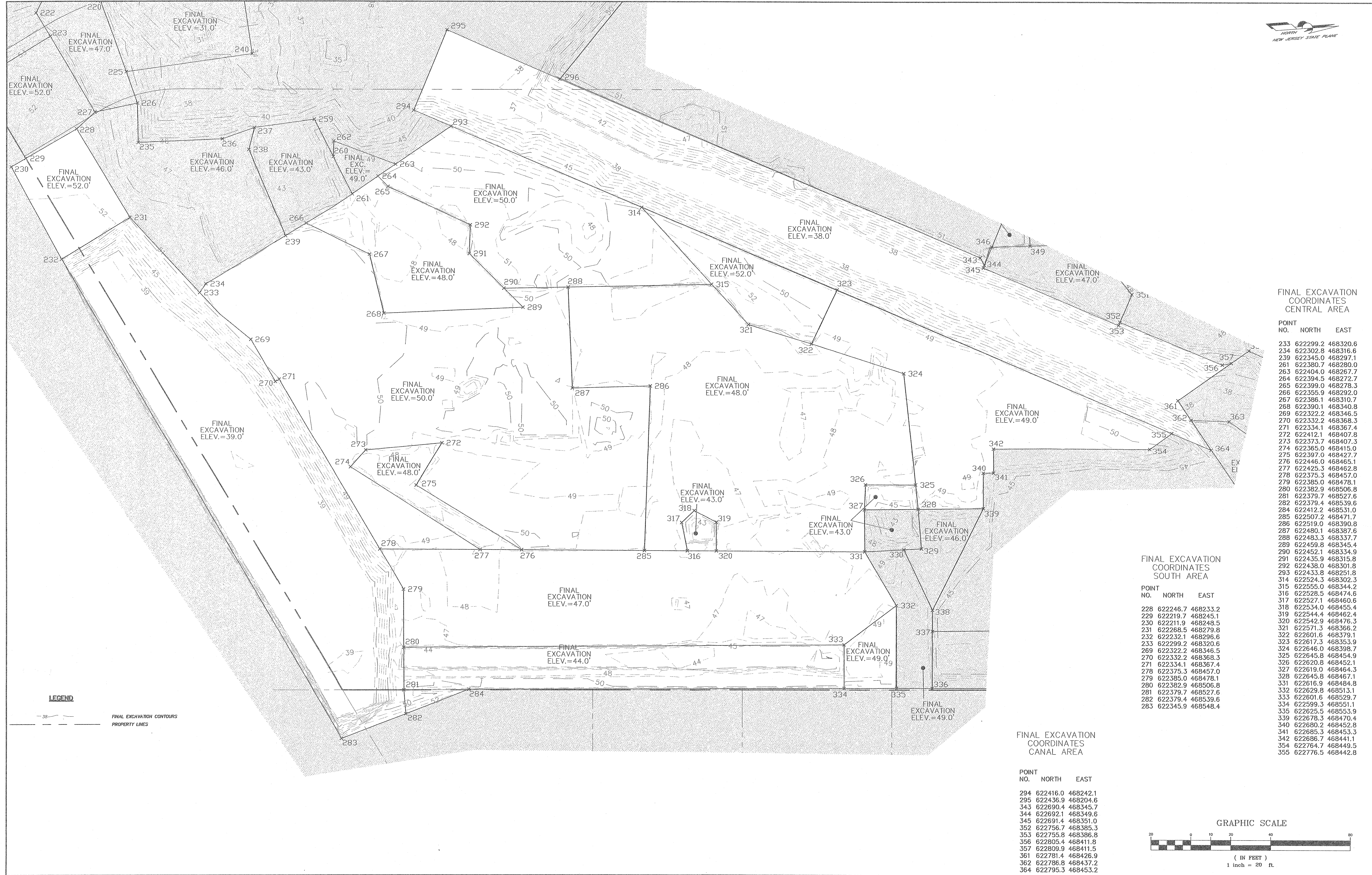
(IN FEET)
1 inch = 20 ft.



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FINAL EXCAVATION LIMITS

OU3 - RUSTIC MALL, SOUTHWEST AREA
FEDERAL CREOSOTE SUPERFUND SITE
BOROUGH OF MANVILLE, SOMERSET COUNTY, N.J.
Sheet 2 of 4



FINAL EXCAVATION
COORDINATES
NORTH AREA

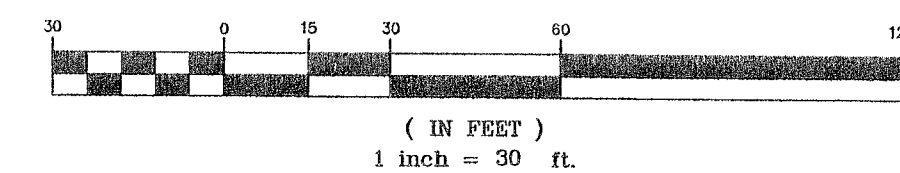
POINT NO.	NORTH	EAST
327	622619.0	468464.3
328	622645.8	468467.1
329	622645.3	468486.5
330	622636.5	468486.0
331	622616.9	468484.8
332	622629.8	468513.1
335	622625.5	468553.9
336	622643.3	468555.9
337	622646.4	468527.9
338	622647.6	468517.4
339	622678.3	468470.4
340	622680.2	468452.8
341	622685.3	468453.3
342	622686.7	468441.1
343	622690.4	468345.7
344	622692.1	468349.6
345	622691.4	468351.0
346	622696.8	468341.1
347	622704.1	468328.0
348	622716.6	468329.3
349	622715.9	468342.7
350	622746.7	468345.1
351	622764.0	468372.2
352	622756.7	468385.3
353	622755.8	468386.8
354	622764.7	468449.5
355	622776.5	468442.8
356	622805.4	468411.8
357	622809.9	468411.5
358	622819.4	468406.4
359	622827.8	468411.3
360	622840.5	468432.1
361	622781.4	468426.9
362	622786.8	468437.2
363	622805.7	468440.0
364	622795.3	468453.2
365	622838.5	468468.6
366	622811.2	468483.1
367	622699.3	468503.3
368	622729.1	468506.4
369	622726.3	468536.2
370	622696.4	468533.1
371	622815.9	468545.1
372	622813.0	468544.8
373	622846.1	468548.8
374	622892.1	468583.6
375	622921.2	468588.2
376	622924.0	468558.3
377	622910.6	468466.1
378	622898.0	468463.3
379	622894.4	468453.2
380	622904.6	468447.1
381	622881.4	468438.1
382	622872.4	468441.5
383	622884.9	468405.2
384	622890.9	468412.7
385	622831.4	468341.5
386	622830.1	468356.1
387	622861.1	468359.1
388	622862.4	468344.8
389	622947.9	468290.5
390	622944.6	468324.8
391	622937.9	468338.6
392	622938.0	468352.9
393	622913.3	468422.4
394	622929.1	468449.4
395	622928.8	468461.7
396	622935.9	468475.0
397	622935.9	468450.1
398	622958.6	468436.8
399	622848.6	468393.8
400	622951.1	468364.9
401	622998.7	468304.7
402	623018.7	468316.3
403	623018.5	468325.8
404	623043.0	468368.2
405	623030.8	468370.6
406	622998.3	468370.9
407	622997.1	468394.8
408	623027.0	468400.1
409	622994.6	468436.1
410	622988.4	468483.5
411	623061.4	468610.1
412	623062.9	468590.8
413	623080.9	468592.0
414	623078.4	468612.8
415	623064.3	468572.8
416	623064.3	468567.5
417	623086.8	468566.3
418	623090.5	468545.4
419	623091.4	468517.4
420	623064.5	468513.0
421	623045.3	468439.4
422	623087.4	468427.0
423	623069.0	468376.8
424	623089.5	468439.0
425	623087.9	468453.9
426	623131.9	468463.3
427	623112.1	468423.4
428	623129.4	468421.4
429	623187.2	468434.3
430	623165.8	468449.3
431	623140.9	468451.9
432	623095.1	468579.7
433	623092.6	468614.8
434	623126.3	468620.0
435	623130.2	468579.5
436	623138.9	468622.0
437	623159.9	468623.7
438	623166.7	468553.7
439	623203.1	468627.3
440	623209.0	468558.3
441	623171.9	468524.4
442	623171.8	468512.6
443	623189.8	468513.6
444	623209.8	468525.1
445	623201.4	468532.0
446	623235.0	468514.6
447	623262.2	468516.2
448	623245.9	468562.3
449	623238.9	468630.3
450	623289.7	468540.5
451	623451.4	468565.6
452	623495.3	468645.4
453	623489.5	468649.0



LEGEND

--- 38 --- FINAL EXCAVATION CONTOURS
--- PROPERTY LINES

GRAPHIC SCALE



D

Appendix
D

Appendix D

Confirmation/Documentation Sample Results for the Canal Area

BOTTOM SAMPLER				1	2	3	4	5	6
CAS#	COMPOUND	ACG CRITERIA	UNITS	FCS-OUS-0190-CA1-F-38.0-7	FCS-OUS-0196-CA1-F2-38.0-7	FCS-OUS-0197-CA2-F-40.5-7	FCS-OUS-0212-CA3-F-37.9-7	FCS-OUS-0219-CA2-TF1-38.0-7	FCS-OUS-0223-CA2-F4-42.0-7
				38.0 ft. MSL	38.0 ft. MSL	40.5 ft. MSL	37.9 ft. MSL	38.0 ft. MSL	42.0 ft. MSL
				13.0 ft. BGS	15.0 ft. BGS	10.5 ft. BGS	13.1 ft. BGS	13.0 ft. BGS	9.0 ft. BGS
8-55-3	Benzo(a)anthracene	900	ug/kg	67 U	67 U	67 U	67 U	67 U	67 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	67 U	67 U	67 U	67 U	67 U	67 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	67 U	67 U	67 U	67 U	67 U	67 U
50-32-8	Benzo(a)pyrene	680	ug/kg	67 U	67 U	67 U	67 U	67 U	67 U
218-01-9	Chrysene	90000	ug/kg	67 U	67 U	67 U	67 U	67 U	67 U
13-70-3	Dibenz(a,h)anthracene	660	ug/kg	67 U	67 U	67 U	67 U	67 U	67 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	67 U	67 U	67 U	67 U	67 U	67 U

SIDEWALL SAMPLER				1	2	3	4
CAS#	COMPOUND	ACG CRITERIA	UNITS	FCS-OUS-0188-CA1-W1-41.0-7	FCS-OUS-0182-CA1-W2-43.0-7	FCS-OUS-8008-CA1-W2-43.0-7	FCS-OUS-0185-CA1-W3-43.0-7
				41.0 ft. MSL	43.0 ft. MSL	43.0 ft. MSL	43.0 ft. MSL
				10.0 ft. BGS	8.0 ft. BGS	8.0 ft. BGS	8.0 ft. BGS
8-55-3	Benzo(a)anthracene	900	ug/kg	67 U	67 U	67 U	67 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	67 U	67 U	67 U	67 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	67 U	67 U	67 U	67 U
50-32-8	Benzo(a)pyrene	680	ug/kg	67 U	67 U	67 U	67 U
218-01-9	Chrysene	90000	ug/kg	67 U	67 U	67 U	67 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	67 U	67 U	67 U	67 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	67 U	67 U	67 U	67 U

*NOTE: All data has been validated

Data Qualifiers:
ND - No Data
U - Non Detect
J - Estimated Value
D - Diluted Sample Results

Legend

Confirmation Sample >

Documentation Sample below Cleanup Goals >

Documentation Sample above Cleanup Goals >

Confirmation/Documentation Sample Results for the Canal Area

BOTTOM SAMPLER				7		8		9		10	
CAS#	COMPOUND	ACG CRITERIA	UNITS	FCS-OU3-0228-CA4-F-38.0-7	FCS-OU3-8011-CA4-F-38.0-7	FCS-OU3-0235-CA5-F-38.0-7	FCS-OU3-0239-CA6-F-38.0-7	FCS-OU3-0243-CA7-F-38.0-7			
				38.0 R. MSL	38.0 R. MSL	38.0 R. MSL	38.0 R. MSL	38.0 R. MSL			
				13.0 R. BGS	13.0 R. BGS	13.0 R. BGS	13.0 R. BGS	13.0 R. BGS			
56-55-3	Benzo(a)anthracene	900	ug/kg	67 U	67 U	67 U	67 U	714			
205-99-2	Benzo(b)fluoranthene	900	ug/kg	67 U	67 U	67 U	67 U	755			
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	67 U	67 U	67 U	67 U	282			
50-32-8	Benzo(a)pyrene	660	ug/kg	67 U	67 U	67 U	67 U	463			
218-01-9	Chrysene	90000	ug/kg	67 U	67 U	67 U	67 U	524			
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	67 U	67 U	67 U	67 U	69			
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	67 U	67 U	67 U	67 U	160			

SIDEWALL SAMPLER				5	6	7	8	9	10
CAS#	COMPOUND	ACG CRITERIA	UNITS	FCS-OU3-0203-CA2-W2-43.0-7	FCS-OU3-0205-CA3-W1-40.0-7	FCS-OU3-0207-CA2-TW2-41.0-7	FCS-OU3-0208-CA2-TW3-41.0-7	FCS-OU3-0220-CA2-TW4-40.0-7	FCS-OU3-0221-CA2-TW5-40.0-7
				43.0 R. MSL	40.0 R. MSL	41.0 R. MSL	41.0 R. MSL	40.0 R. MSL	40.0 R. MSL
				8.0 R. BGS	11.0 R. BGS	10.0 R. BGS	10.0 R. BGS	11.0 R. BGS	11.0 R. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	67 U	360	67 U	67 U	67 U	67 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	67 U	466	67 U	67 U	67 U	67 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	67 U	175	67 U	67 U	67 U	67 U
50-32-8	Benzo(a)pyrene	860	ug/kg	67 U	347	67 U	67 U	67 U	67 U
218-01-9	Chrysene	90000	ug/kg	67 U	297	67 U	67 U	67 U	67 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	67 U	86	67 U	67 U	67 U	67 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	67 U	178	67 U	67 U	67 U	67 U

*NOTE: All data has been validated

Data Qualifiers:
ND - No Data
U - Non Detect
J - Estimated Value
D - Diluted Sample Results

Legend

Confirmation Sample >

Documentation Sample below Cleanup Goals >

Documentation Sample above Cleanup Goals >

Confirmation/Documentation Sample Results for the Canal Area

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS
56-55-3	Benzo(a)anthracene	900	ug/kg
205-99-2	Benzo(b)fluoranthene	900	ug/kg
207-08-9	Benzo(k)fluoranthene	9000	ug/kg
50-32-8	Benzo(a)pyrene	660	ug/kg
218-01-9	Chrysene	90000	ug/kg
53-70-3	Dibenz(a,h)anthracene	660	ug/kg
193-39-6	Indeno(1,2,3-cd)pyrene	900	ug/kg

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	11	12	13	14	15
				FCS-OUS-0213-CA3-W2-41.0-7	FCS-OUS-0215-CA3-W3-40.5-7	FCS-OUS-0228-CA4-W1-40.0-7	FCS-OUS-0230-CA4-W2-40.5-7	FCS-OUS-0232-CA5-W1-42.0-7
				41.0 ft. MSL	40.5 ft. MSL	40.0 ft. MSL	40.5 ft. MSL	42.0 ft. MSL
				10.0 ft. BGS	10.5 ft. BGS	11.0 ft. BGS	10.5 ft. BGS	9.0 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	67 U	67 U	67 U	67 U	67 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	67 U	67 U	67 U	67 U	67 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	67 U	67 U	67 U	67 U	67 U
50-32-8	Benzo(a)pyrene	660	ug/kg	67 U	67 U	67 U	67 U	67 U
218-01-9	Chrysene	90000	ug/kg	67 U	67 U	67 U	67 U	67 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	67 U	67 U	67 U	67 U	67 U
193-39-6	Indeno(1,2,3-cd)pyrene	900	ug/kg	67 U	67 U	67 U	67 U	67 U

*NOTE: All data has been validated

Data Qualifiers:
ND - No Data
U - Non Detect
J - Estimated Value
D - Diluted Sample Results

Legend

Confirmation Sample >

Documentation Sample below Cleanup Goals >

Documentation Sample above Cleanup Goals >

Confirmation/Documentation Sample Results for the Canal Area

BOTTOM SAMPLES

CASE#	COMPOUND	ACG CRITERIA	UNITS
56-55-3	Benzo(a)anthracen	900	ug/kg
205-69-2	Benzo(b)fluoranth	800	ug/kg
207-68-6	Benzo(k)fluoranth	9000	ug/kg
50-32-6	Benzo(a)pyrene	660	ug/kg
218-01-6	Chrysene	90000	ug/kg
53-70-3	Dibenzo(a,h)anthrac	660	ug/kg
193-39-5	Indeno(1,2,3-cd)py	900	ug/kg

SEAWALL SAMPLES

CASE#	COMPOUND	ACG CRITERIA	UNITS	16	17	18
				FCS-OUS-0236-CAB-W1-40.5-7	FCS-OUS-0244-CA7-W1-41.0-7	FCS-OUS-0246-CA7-W2-42.0-7
				40.5 ft. MSL	41.0 ft. MSL	42.0 ft. MSL
				10.5 ft. BGS	10.0 ft. BGS	9.0 ft. BGS
56-55-3	Benzo(a)anthracen	900	ug/kg	67 U	67 U	67 U
205-69-2	Benzo(b)fluoranth	800	ug/kg	67 U	67 U	67 U
207-68-6	Benzo(k)fluoranth	9000	ug/kg	67 U	67 U	67 U
50-32-6	Benzo(a)pyrene	660	ug/kg	67 U	67 U	67 U
218-01-6	Chrysene	90000	ug/kg	67 U	67 U	67 U
53-70-3	Dibenzo(a,h)anthrac	660	ug/kg	67 U	67 U	67 U
193-39-5	Indeno(1,2,3-cd)py	900	ug/kg	67 U	67 U	67 U

*NOTE: All data has been validated

Data Qualifiers:
ND - No Data
U - Non Detect
J - Estimated Value
D - Diluted Sample Results

Legend

Confirmation Sample >

Documentation Sample below Cleanup Goals >

Documentation Sample above Cleanup Goals >

502017

Confirmation/Documentation Sample Results for the Canal Area

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	1			2			3		
				RUSTIC-S6536B	RUSTIC-S6536C	RUSTIC-S6536D	RUSTIC-S6619B	RUSTIC-S6619C	RUSTIC-S6619C-D	RUSTIC-S6619F	RUSTIC-S6626C	
				46 to 48 ft. MSL 4 to 6 ft. BGS	44 to 46 ft. MSL 6 to 8 ft. BGS	42 to 44 ft. MSL 8 to 10 ft. BGS	48 to 50 ft. MSL 2 to 4 ft. BGS	46 to 48 ft. MSL 4 to 6 ft. BGS	46 to 48 ft. MSL 4 to 6 ft. BGS	40 to 42 ft. MSL 10 to 12 ft. BGS	46 to 48 ft. MSL 4 to 6 ft. BGS	
56-55-3	Benzo(a)anthracene	900	ug/kg	110 J	350 U	300 J	380 U	350 U	350 U	350 U	350 U	350 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	140 J	350 U	400	380 U	350 U	350 U	350 U	350 U	350 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	65 J	350 U	150 J	380 U	350 U	350 U	350 U	350 U	350 U
50-32-6	Benzo(a)pyrene	660	ug/kg	86 J	350 U	220 J	380 U	350 U	350 U	350 U	350 U	350 U
218-01-9	Chrysene	90000	ug/kg	110 J	350 U	310 J	380 U	350 U	350 U	350 U	350 U	350 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	350 U	350 U	52 J	380 U	350 U	350 U	350 U	350 U	350 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	51 J	350 U	130 J	380 U	350 U	350 U	350 U	350 U	350 U




CAS#	COMPOUND	ACG CRITERIA	UNITS	4			5			6		
				RUSTIC-S6638A	RUSTIC-S6638B	RUSTIC-S6639C	RUSTIC-S6640C	RUSTIC-S6640D	RUSTIC-S6640E	RUSTIC-S6660B	RUSTIC-S6660E	RUSTIC-S6660F
				50 to 52 ft. MSL 0 to 2 ft. BGS	48 to 50 ft. MSL 2 to 4 ft. BGS	46 to 48 ft. MSL 4 to 6 ft. BGS	48 to 48 ft. MSL 4 to 6 ft. BGS	44 to 46 ft. MSL 6 to 8 ft. BGS	42 to 44 ft. MSL 8 to 10 ft. BGS	48 to 50 ft. MSL 2 to 4 ft. BGS	42 to 44 ft. MSL 6 to 10 ft. BGS	40 to 42 ft. MSL 10 to 12 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	370 U	370 U	340 U	340 U	350 U	350 U	380 U	350 U	350 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	370 U	370 U	340 U	340 U	350 U	350 U	360 U	350 U	350 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	370 U	370 U	340 U	340 U	350 U	350 U	360 U	350 U	350 U
50-32-6	Benzo(a)pyrene	660	ug/kg	370 U	370 U	340 U	340 U	350 U	350 U	360 U	350 U	350 U
218-01-9	Chrysene	90000	ug/kg	370 U	370 U	340 U	340 U	350 U	350 U	360 U	350 U	350 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	370 U	370 U	340 U	340 U	350 U	350 U	360 U	350 U	350 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	370 U	370 U	340 U	340 U	350 U	350 U	360 U	350 U	350 U

CAS#	COMPOUND	ACG CRITERIA	UNITS	7			8			9		
				RUSTIC-S6648A	RUSTIC-S6648B	RUSTIC-S6648B-D	RUSTIC-S6648F	RUSTIC-S6648F-D	Rustic-D075A	Rustic-D075B	RUSTIC-S6649A	RUSTIC-S6649B
				50 to 52 ft. MSL 0 to 2 ft. BGS	48 to 50 ft. MSL 2 to 4 ft. BGS	46 to 50 ft. MSL 2 to 4 ft. BGS	40 to 42 ft. MSL 10 to 12 ft. BGS	40 to 42 ft. MSL 10 to 12 ft. BGS	50 to 51.5 ft. MSL 0.5 to 2 ft. BGS	48 to 50 ft. MSL 2 to 4 ft. BGS	50 to 52 ft. MSL 0 to 2 ft. BGS	48 to 50 ft. MSL 2 to 4 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	370 U	380 U	380 U	350 U	350 U	120 J	120 J	370 U	350 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	370 U	380 U	380 U	350 U	350 U	140 J	180 J	370 U	350 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	370 U	380 U	380 U	350 U	350 U	98 J	210 J	370 U	350 U
50-32-6	Benzo(a)pyrene	660	ug/kg	370 U	380 U	380 U	350 U	350 U	92 J	140 J	370 U	350 U
218-01-9	Chrysene	90000	ug/kg	370 U	380 U	380 U	350 U	350 U	120 J	130 J	370 U	350 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	370 U	380 U	380 U	350 U	350 U	380 U	48 J	370 U	350 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	370 U	380 U	380 U	350 U	350 U	68 J	95 J	370 U	350 U

CAS#	COMPOUND	ACG CRITERIA	UNITS	10			11		
				RUSTIC-S6657B	RUSTIC-S6657C	RUSTIC-S6657C-D	RUSTIC-S6657D	RUSTIC-S6657E	RUSTIC-S6657F
				46 to 50 ft. MSL 2 to 4 ft. BGS	46 to 48 ft. MSL 4 to 6 ft. BGS	46 to 48 ft. MSL 4 to 6 ft. BGS	44 to 46 ft. MSL 6 to 8 ft. BGS	42 to 44 ft. MSL 8 to 10 ft. BGS	40 to 42 ft. MSL 10 to 12 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	350 U	350 U	350 U	340 U	350 U	350 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	350 U	350 U	350 U	340 U	350 U	350 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	350 U	350 U	350 U	340 U	350 U	350 U
50-32-6	Benzo(a)pyrene	660	ug/kg	350 U	350 U	350 U	340 U	350 U	350 U
218-01-9	Chrysene	90000	ug/kg	350 U	350 U	350 U	340 U	350 U	350 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	350 U	350 U	350 U	340 U	350 U	350 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	350 U	350 U	350 U	340 U	350 U	350 U

*NOTE: All data has been validated

Data Qualifiers:
ND - No Data
U - Non Detect
J - Estimated Value
D - Diluted Sample Results

Legend	
Confirmation Sample >	
Documentation Sample below Cleanup Goals >	
Documentation Sample above Cleanup Goals >	

502018

Confirmation/Documentation Sample Results for the Canal Area

SIDEWALL SAMPLES (continued)

CAS#	COMPOUND	ACG CRITERIA	UNITS	12				13			
				RUSTIC-S6614B	RUSTIC-S6614C	RUSTIC-S6614C-D	RUSTIC-S6614F	RUSTIC-S6613A	RUSTIC-S6613B	RUSTIC-S6613C	RUSTIC-S6613C-D
				48 to 50 ft. MSL 2 to 4 ft. BGS	46 to 48 ft. MSL 4 to 6 ft. BGS	46 to 48 ft. MSL 4 to 6 ft. BGS	40 to 42 ft. MSL 10 to 12 ft. BGS	50 to 52 ft. MSL 0 to 2 ft. BGS	48 to 50 ft. MSL 2 to 4 ft. BGS	46 to 48 ft. MSL 4 to 6 ft. BGS	46 to 48 ft. MSL 4 to 6 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	340 U	340 U	340 U	340 U	370 U	360 U	340 U	340 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	340 U	340 U	340 U	340 U	370 U	360 U	340 U	340 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	340 U	340 U	340 U	340 U	370 U	360 U	340 U	340 U
50-32-8	Benzo(a)pyrene	680	ug/kg	340 U	340 U	340 U	340 U	370 U	360 U	340 U	340 U
218-01-9	Chrysene	80000	ug/kg	340 U	340 U	340 U	340 U	370 U	360 U	340 U	340 U
53-70-3	Dibenz(a,h)anthracene	680	ug/kg	340 U	340 U	340 U	340 U	370 U	360 U	340 U	340 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	340 U	340 U	340 U	340 U	370 U	360 U	340 U	340 U

CAS#	COMPOUND	ACG CRITERIA	UNITS	14		
				RUSTIC-S6535B	RUSTIC-S6535C	RUSTIC-S6535D
				46 to 48 ft. MSL 4 to 6 ft. BGS	44 to 46 ft. MSL 6 to 8 ft. BGS	42 to 44 ft. MSL 8 to 10 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	350 U	360 U	350 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	350 U	380 U	350 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	350 U	360 U	350 U
50-32-8	Benzo(a)pyrene	680	ug/kg	350 U	360 U	350 U
218-01-9	Chrysene	80000	ug/kg	350 U	360 U	350 U
53-70-3	Dibenz(a,h)anthracene	680	ug/kg	350 U	360 U	350 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	350 U	360 U	350 U

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	1	2	3	4	5	6	7	8
				RUSTIC-S6612H	RUSTIC-S6621G	RUSTIC-S6652H	RUSTIC-S6641H	RUSTIC-S6653H	RUSTIC-S6654H	RUSTIC-S6655H	RUSTIC-S6656H
				36 to 38 ft. MSL 14 to 16 ft. BGS	36 to 38 ft. MSL 14 to 16 ft. BGS	36 to 38 ft. MSL 14 to 16 ft. BGS	36 to 38 ft. MSL 14 to 16 ft. BGS	36 to 38 ft. MSL 14 to 16 ft. BGS	36 to 38 ft. MSL 14 to 16 ft. BGS	36 to 38 ft. MSL 14 to 16 ft. BGS	36 to 38 ft. MSL 14 to 16 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	3400 D	350 U	280 J	350 U	350 U	350 U	350 U	10000 D
205-99-2	Benzo(b)fluoranthene	900	ug/kg	3000 D	350 U	350 U	350 U	350 U	350 U	350 U	10000 D
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	22000 D	350 U	350 U	350 U	350 U	350 U	350 U	30000 D
50-32-8	Benzo(a)pyrene	680	ug/kg	11000 D	350 U	350 U	350 U	350 U	350 U	350 U	36000 D
218-01-9	Chrysene	80000	ug/kg	67000 D	350 U	150 J	350 U	350 U	350 U	350 U	10000 D
53-70-3	Dibenz(a,h)anthracene	680	ug/kg		350 U	350 U	350 U	350 U	350 U	350 U	10000 D
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg		350 U	350 U	350 U	350 U	350 U	350 U	30000 D

*NOTE: All data has been validated

Data Qualifiers:
 ND - No Data
 U - Non Detect
 J - Estimated Value
 D - Diluted Sample Results

Legend	
Confirmation Sample >	
Documentation Sample below Cleanup Goals >	
Documentation Sample above Cleanup Goals >	

502019

Confirmation/Documentation Sample Results for the Canal Area

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	15				
				RUSTIC-S6365A	RUSTIC-S6365B	RUSTIC-S6365C	RUSTIC-S6365C-D	RUSTIC-S6365D
				50 to 51 ft. MSL	48 to 50 ft. MSL	46 to 48 ft. MSL	46 to 48 ft. MSL	44 to 46 ft. MSL
				1 to 2 ft. BGS	2 to 4 ft. BGS	4 to 6 ft. BGS	4 to 6 ft. BGS	6 to 8 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	370 U	380 U	340 U	340 U	350 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	370 U	380 U	340 U	340 U	350 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	370 U	380 U	340 U	340 U	350 U
50-32-8	Benzo(a)pyrene	660	ug/kg	370 U	380 U	340 U	340 U	350 U
218-01-9	Chrysene	90000	ug/kg	370 U	380 U	340 U	340 U	350 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	370 U	380 U	340 U	340 U	350 U
193-39-6	Indeno(1,2,3-cd)pyrene	900	ug/kg	370 U	380 U	340 U	340 U	350 U

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

D - Diluted Sample Results

Legend

Confirmation Sample >

Documentation Sample below Cleanup Goals >

Documentation Sample above Cleanup Goals >



Confirmation/Documentation Sample Results for the Canal Area

CAS#	COMPOUND	ACG CRITERIA	UNITS	15 (continued)		
				RUSTIC-S6365E	RUSTIC-S6365F	RUSTIC-S6365G
				42 to 44 ft. MSL	40 to 42 ft. MSL	38 to 40 ft. MSL
				8 to 10 ft. BGS	10 to 12 ft. BGS	12 to 14 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	350 U	350 U	350 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	350 U	350 U	350 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	350 U	350 U	350 U
50-32-8	Benzo(a)pyrene	660	ug/kg	350 U	350 U	350 U
218-01-9	Chrysene	90000	ug/kg	350 U	350 U	350 U
53-70-3	Dibenz(a,h)anthracene	880	ug/kg	350 U	350 U	350 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	350 U	350 U	350 U

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

D - Diluted Sample Results

Legend

Confirmation Sample >

Documentation Sample below Cleanup Goals >

Documentation Sample above Cleanup Goals >



Confirmation/Documentation Sample Results for the Central Area

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	1	2	3
				FCS-OU3-9016-AREA-A-F1-48.30-7	FCS-OU3-0334-AREA-A-F1-48.30-7	FCS-OU3-0338-AREA-A-F4-47.0-7
				48.30 ft. MSL	48.30 ft. MSL	47.0 ft. MSL
				4.7 ft. BGS	4.7 ft. BGS	8.0 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	67 U	67 U	67 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	67 U	67 U	67 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	67 U	67 U	67 U
50-32-8	Benzo(a)pyrene	660	ug/kg	67 U	67 U	67 U
218-01-9	Chrysene	90000	ug/kg	67 U	67 U	67 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	67 U	67 U	67 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	67 U	67 U	67 U

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	1	2	3	4
				FCS-OU3-0355-AREA-A-W3-50.50-7	FCS-OU3-0363-AREA-A-W9-48.20-7	FCS-OU3-0360-AREA-A-W8-48.20-7	FCS-OU3-0356-AREA-A-W4-49.50-7
				50.50 ft. MSL	48.20 ft. MSL	48.20 ft. MSL	49.50 ft. MSL
				2.5 ft. BGS	4.8 ft. BGS	4.8 ft. BGS	3.5 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	67 U	67 U	67 U	67 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	67 U	67 U	67 U	67 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	67 U	67 U	67 U	67 U
50-32-8	Benzo(a)pyrene	660	ug/kg	67 U	67 U	67 U	67 U
218-01-9	Chrysene	90000	ug/kg	67 U	67 U	67 U	67 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	67 U	67 U	67 U	67 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	67 U	67 U	67 U	67 U

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

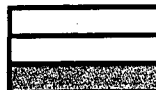
D - Diluted Sample Results

Legend

Confirmation Sample >

Documentation Sample below Cleanup Goals >

Documentation Sample above Cleanup Goals >



502022

Confirmation/Documentation Sample Results for the Central Area

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	4	5	6	
				FCS-OU3-0339-AREA-A-F5-50.40-7	FCS-OU3-0336-AREA-A-F2-48.30-7	FCS-OU3-9017-AREA-A-F6-50.40-7	FCS-OU3-0340-AREA-A-F6-50.40-7
				50.40 ft. MSL	48.30 ft. MSL	50.40 ft. MSL	50.40 ft. MSL
				2.6 ft. BGS	4.7 ft. BGS	2.6 ft. BGS	2.6 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	67 U	67 U	67 U	67 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	67 U	67 U	67 U	67 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	67 U	67 U	67 U	67 U
50-32-8	Benzo(a)pyrene	660	ug/kg	67 U	67 U	67 U	67 U
218-01-9	Chrysene	90000	ug/kg	67 U	67 U	67 U	67 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	67 U	67 U	67 U	67 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	67 U	67 U	67 U	67 U

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	5	6	7	8
				FCS-OU3-0354-AREA-A-W2-49.50-7	FCS-OU3-0357-AREA-A-W5-49.70-7	FCS-OU3-0352-AREA-A-W1-48.60-7	FCS-OU3-9018-AREA-A-W7-49.60-7
				49.50 ft. MSL	49.70 ft. MSL	48.60 ft. MSL	49.60 ft. MSL
				3.5 ft. BGS	3.3 ft. BGS	4.4 ft. BGS	3.4 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	67 U	67 U	67 U	67 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	67 U	67 U	67 U	67 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	67 U	67 U	67 U	67 U
50-32-8	Benzo(a)pyrene	660	ug/kg	67 U	67 U	67 U	67 U
218-01-9	Chrysene	90000	ug/kg	67 U	67 U	67 U	67 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	67 U	67 U	67 U	67 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	67 U	67 U	67 U	67 U

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

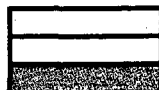
D - Diluted Sample Results

Legend

Confirmation Sample >

Documentation Sample below Cleanup Goals >

Documentation Sample above Cleanup Goals >



502023

Confirmation/Documentation Sample Results for the Central Area

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	7	8	9	10
				FCS-OU3-0390-AREA-B-F2-48.80-7	FCS-OU3-0435-AREA-BX-F3-49.40-7	FCS-OU3-0436-AREA-BX-F4-50.92-7	FCS-OU3-9023-AREA-BX-F8-48.40-7
				48.80 ft. MSL	49.40 ft. MSL	50.92 ft. MSL	48.40 ft. MSL
				4.2 ft. BGS	2.6 ft. BGS	1.08 ft. BGS	5.6 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	67 U	67 U	67 U	67 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	67 U	67 U	67 U	67 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	67 U	67 U	67 U	67 U
50-32-8	Benzo(a)pyrene	660	ug/kg	67 U	67 U	67 U	67 U
218-01-9	Chrysene	90000	ug/kg	67 U	67 U	67 U	67 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	67 U	67 U	67 U	67 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	67 U	67 U	67 U	67 U

SIDEWALL SAMPLES

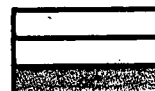
CAS#	COMPOUND	ACG CRITERIA	UNITS	8	9	10	11
				FCS-OU3-0359-AREA-A-W7-49.60-7	FCS-OU3-0301-AREA-N34-W19-50.80-7	FCS-OU3-0470-AREA-BX-SW1-48.40-7	FCS-OU3-0471-AREA-BX-WW1-48.40-7
				49.60 ft. MSL	50.80 ft. MSL	48.40 ft. MSL	48.40 ft. MSL
				3.4 ft. BGS	2.2 ft. BGS	3.6 ft. BGS	3.6 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	67 U	67 U	67 U	67 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	67 U	67 U	67 U	67 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	67 U	67 U	67 U	67 U
50-32-8	Benzo(a)pyrene	660	ug/kg	67 U	67 U	67 U	67 U
218-01-9	Chrysene	90000	ug/kg	67 U	67 U	67 U	67 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	67 U	67 U	67 U	67 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	67 U	67 U	67 U	67 U

*NOTE: All data has been validated

Data Qualifiers:
 ND - No Data
 U - Non Detect
 J - Estimated Value
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BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	10	11	12	13
				FCS-OU3-0467-AREA-BX-F8-48.40-7	FCS-OU3-0389-AREA-B-F1-48.90-7	FCS-OU3-0474-AREA-BX-F10-49.60-7	FCS-OU3-0473-AREA-BX-F9-50.11-7
				48.40 ft. MSL 5.6 ft. BGS	48.90 ft. MSL 3.1 ft. BGS	49.80 ft. MSL 2.4 ft. BGS	50.11 ft. MSL 1.89 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	67 U	67 U	67 U	67 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	67 U	67 U	67 U	67 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	67 U	67 U	67 U	67 U
50-32-8	Benzo(a)pyrene	660	ug/kg	67 U	67 U	67 U	67 U
218-01-9	Chrysene	90000	ug/kg	67 U	67 U	67 U	67 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	67 U	67 U	67 U	67 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	67 U	67 U	67 U	67 U

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	12	13	14	15
				FCS-OU3-0469-AREA-BX-EW1-48.50-7	FCS-OU3-0468-AREA-BX-NW1-48.45-7	FCS-OU3-0395-AREA-C-EW-44.20-7	FCS-OU3-0398-AREA-C-SW-45.07-7
				48.50 ft. MSL 3.5 ft. BGS	48.45 ft. MSL 3.55 ft. BGS	44.20 ft. MSL 7.8 ft. BGS	45.07 ft. MSL 6.93 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	67 U	67 U	67 U	67 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	67 U	67 U	67 U	67 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	67 U	67 U	67 U	67 U
50-32-8	Benzo(a)pyrene	660	ug/kg	67 U	67 U	67 U	67 U
218-01-9	Chrysene	90000	ug/kg	67 U	67 U	67 U	67 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	67 U	67 U	67 U	67 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	67 U	67 U	67 U	67 U

*NOTE: All data has been validated

Data Qualifiers:

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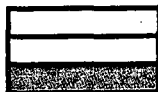
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Confirmation/Documentation Sample Results for the Central Area

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	14	15	16	17
				FCS-OU3-0434-AREA-BX-F2-47.50-7	FCS-OU3-0460-AREA-C-F21-48.45-7	FCS-OU3-0459-AREA-C-F20-48.0-7	FCS-OU3-0433-AREA-BX-F1-49.70-7
				47.50 ft. MSL	48.45 ft. MSL	48.0 ft. MSL	49.70 ft. MSL
				4.5 ft. BGS	3.55 ft. BGS	4.0 ft. BGS	2.3 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	67 U	67 U	67 U	67 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	67 U	67 U	67 U	67 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	67 U	67 U	67 U	67 U
50-32-8	Benzo(a)pyrene	660	ug/kg	67 U	67 U	67 U	67 U
218-01-9	Chrysene	90000	ug/kg	67 U	67 U	67 U	67 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	67 U	67 U	67 U	67 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	67 U	67 U	67 U	67 U

SIDEWALL SAMPLES

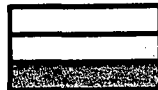
CAS#	COMPOUND	ACG CRITERIA	UNITS	16	17	18	19
				FCS-OU3-0397-AREA-C-VW-44.20-7	FCS-OU3-0394-AREA-C-NW-45.10-7	FCS-OU3-0298-ALLEY-W16-46.0-7	FCS-OU3-0296-ALLEY-W14-45.90-7
				44.20 ft. MSL	45.10 ft. MSL	46.0 ft. MSL	45.90 ft. MSL
				7.8 ft. BGS	6.9 ft. BGS	5.0 ft. BGS	5.1 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	67 U	67 U	67 U	67 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	67 U	67 U	67 U	67 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	67 U	67 U	67 U	67 U
50-32-8	Benzo(a)pyrene	660	ug/kg	67 U	67 U	67 U	67 U
218-01-9	Chrysene	90000	ug/kg	67 U	67 U	67 U	67 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	67 U	67 U	67 U	67 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	67 U	67 U	67 U	67 U

*NOTE: All data has been validated

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BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	18	19	20	21
				FCS-OU3-0418-AREA-B-F6-49.60-7	FCS-OU3-0417-AREA-B-F5-49.65-7	FCS-OU3-0416-AREA-B-F4-50.0-7	FCS-OU3-0415-AREA-B-F3-48.55-7
				49.60 ft. MSL	49.65 ft. MSL	50.0 ft. MSL	48.55 ft. MSL
				2.4 ft. BGS	2.35 ft. BGS	2.0 ft. BGS	3.45 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	172	143	67 U	67 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	199	152	67 U	67 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	184	103	67 U	67 U
50-32-8	Benzo(a)pyrene	660	ug/kg	158	129	67 U	67 U
218-01-9	Chrysene	90000	ug/kg	167	143	67 U	67 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	67 U	67 U	67 U	67 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	67 U	67 U	67 U	67 U

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	20	21	22	23
				FCS-OU3-0294-ALLEY-W12-45.50-7	FCS-OU3-0291-ALLEY-W10-46.40-7	FCS-OU3-0289-ALLEY-W8-46.50-7	FCS-OU3-0287-ALLEY-W6-46.50-7
				45.50 ft. MSL	46.40 ft. MSL	46.50 ft. MSL	46.50 ft. MSL
				5.5 ft. BGS	4.6 ft. BGS	4.5 ft. BGS	4.5 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	67 U	67 U	67 U	67 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	67 U	67 U	67 U	67 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	67 U	67 U	67 U	67 U
50-32-8	Benzo(a)pyrene	660	ug/kg	67 U	67 U	67 U	67 U
218-01-9	Chrysene	90000	ug/kg	67 U	67 U	67 U	67 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	67 U	67 U	67 U	67 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	67 U	67 U	67 U	67 U

*NOTE: All data has been validated

Data Qualifiers:

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J - Estimated Value

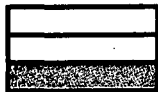
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BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	22	23	24	25
				FCS-OU3-0430-AREA-C-F18-A-47.62-7	FCS-OU3-0432-AREA-C-F18-1-48.35-7	FCS-OU3-0385-AREA-C-F17-48.50-7	FCS-OU3-0384-AREA-C-F18-47.40-7
				47.62 ft. MSL	48.35 ft. MSL	48.50 ft. MSL	47.40 ft. MSL
				4.38 ft. BGS	5.65 ft. BGS	3.5 ft. BGS	4.6 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	67 U	67 U	67 U	67 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	67 U	67 U	67 U	67 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	67 U	67 U	67 U	67 U
50-32-8	Benzo(a)pyrene	660	ug/kg	67 U	67 U	67 U	67 U
218-01-9	Chrysene	90000	ug/kg	67 U	67 U	67 U	67 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	67 U	67 U	67 U	67 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	67 U	67 U	67 U	67 U

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	24	25	26	27
				FCS-OU3-0285-ALLEY-W4-46.80-7	FCS-OU3-0284-ALLEY-W3-46.80-7	FCS-OU3-0283-ALLEY-W2-46.50-7	FCS-OU3-0281-ALLEY-W1-47.0-7
				46.80 ft. MSL	46.80 ft. MSL	46.50 ft. MSL	47.0 ft. MSL
				4.2 ft. BGS	4.2 ft. BGS	4.5 ft. BGS	4.0 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	67 U	67 U	366	67 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	67 U	67 U	620	67 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	67 U	67 U	67 U	67 U
50-32-8	Benzo(a)pyrene	660	ug/kg	67 U	67 U	274	67 U
218-01-9	Chrysene	90000	ug/kg	67 U	67 U	298	67 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	67 U	67 U	67 U	67 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	67 U	67 U	78	67 U

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

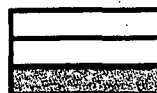
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BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	26	27	28	29
				FCS-OU3-0383-AREA-C-F15-47.30-7	FCS-OU3-0382-AREA-C-F14-47.30-7	FCS-OU3-0381-AREA-C-F13-47.40-7	FCS-OU3-0380-AREA-C-F12-47.88-7
				47.30 ft. MSL	47.30 ft. MSL	47.40 ft. MSL	47.88 ft. MSL
				4.7 ft. BGS	4.7 ft. BGS	4.6 ft. BGS	4.12 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	67 U	67 U	67 U	67 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	67 U	67 U	67 U	67 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	67 U	67 U	67 U	67 U
50-32-8	Benzo(a)pyrene	660	ug/kg	67 U	67 U	67 U	67 U
218-01-9	Chrysene	90000	ug/kg	67 U	67 U	67 U	67 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	67 U	67 U	67 U	67 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	67 U	67 U	67 U	67 U

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	27 CON'T	28	29	30
				FCS-OU3-9014-ALLEY-W1-47.0-7	FCS-OU3-0297-ALLEY-W15-46.50-7	FCS-OU3-314-U-ALLEY-W9-47.70-7	FCS-OU3-0295-ALLEY-W13-46.0-7
				47.0 ft. MSL	46.50 ft. MSL	47.70 ft. MSL	46.0 ft. MSL
				4.0 ft. BGS	4.5 ft. BGS	3.3 ft. BGS	5.0 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	67 U	67 U	67 U	67 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	67 U	67 U	67 U	67 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	67 U	67 U	67 U	67 U
50-32-8	Benzo(a)pyrene	660	ug/kg	67 U	67 U	67 U	67 U
218-01-9	Chrysene	90000	ug/kg	67 U	67 U	67 U	67 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	67 U	67 U	67 U	67 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	67 U	67 U	67 U	67 U

*NOTE: All data has been validated

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ND - No Data

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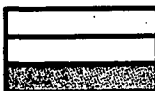
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BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	30	31	32	33
				FCS-OU3-0375-AREA-C-F7-47.15-7	FCS-OU3-0374-AREA-C-F8-47.78-7	FCS-OU3-0369-AREA-C-F2-48.90-7	FCS-OU3-0373-AREA-C-F5-47.80-7
				47.15 ft. MSL	47.78 ft. MSL	48.90 ft. MSL	47.80 ft. MSL
				4.85 ft. BGS	4.22 ft. BGS	5.1 ft. BGS	4.2 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	67 U	67 U	67 U	67 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	67 U	67 U	67 U	67 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	67 U	67 U	67 U	67 U
50-32-8	Benzo(a)pyrene	660	ug/kg	67 U	67 U	67 U	67 U
218-01-9	Chrysene	90000	ug/kg	67 U	67 U	67 U	67 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	67 U	67 U	67 U	67 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	67 U	67 U	67 U	67 U

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	31	32	33	34
				FCS-OU3-312-U-ALLEY-W7-48.10-7	FCS-OU3-0292-ALLEY-W11-48.0-7	FCS-OU3-309-U-ALLEY-W5-48.20-7	FCS-OU3-0290-ALLEY-W9-48.30-7
				48.10 ft. MSL	48.0 ft. MSL	48.20 ft. MSL	48.30 ft. MSL
				2.9 ft. BGS	5.0 ft. BGS	2.8 ft. BGS	4.7 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	67 U	67 U	67 U	67 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	67 U	67 U	67 U	67 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	67 U	67 U	67 U	67 U
50-32-8	Benzo(a)pyrene	660	ug/kg	67 U	67 U	67 U	67 U
218-01-9	Chrysene	90000	ug/kg	67 U	67 U	67 U	67 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	67 U	67 U	67 U	67 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	67 U	67 U	67 U	67 U

*NOTE: All data has been validated

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BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	34	35	36	37
				FCS-OU3-0377-AREA-C-F9-48.95-7	FCS-OU3-0378-AREA-C-F10-42.0-7	FCS-OU3-0379-AREA-C-F-11-47.65-7	FCS-OU3-0372-AREA-C-F4-48.0-7
				48.95 ft. MSL	42.0 ft. MSL	47.65 ft. MSL	48.0 ft. MSL
				5.05 ft. BGS	10.0 ft. BGS	4.35 ft. BGS	6.0 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	67 U	67 U	67 U	67 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	67 U	67 U	67 U	67 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	67 U	67 U	67 U	67 U
50-32-8	Benzo(a)pyrene	660	ug/kg	67 U	67 U	67 U	67 U
218-01-9	Chrysene	90000	ug/kg	67 U	67 U	67 U	67 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	67 U	67 U	67 U	67 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	67 U	67 U	67 U	67 U

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	35	36	37
				FCS-OU3-307-U-ALLEY-W3-48.30-7	FCS-OU3-304-U-ALLEY-W1-47.80-7	FCS-OU3-9015-U-ALLEY-W1-47.80-7
				48.30 ft. MSL	47.80 ft. MSL	47.80 ft. MSL
				2.7 ft. BGS	3.2 ft. BGS	3.2 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	67 U	67 U	67 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	67 U	67 U	67 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	67 U	67 U	67 U
50-32-8	Benzo(a)pyrene	660	ug/kg	67 U	67 U	67 U
218-01-9	Chrysene	90000	ug/kg	67 U	67 U	67 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	67 U	67 U	67 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	67 U	67 U	67 U

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U - Non Detect

J - Estimated Value

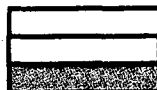
D - Diluted Sample Results

Legend

Confirmation Sample >

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Confirmation/Documentation Sample Results for the Central Area

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	38	39	40	41
				FCS-OU3-0376-AREA-C-F8-48.20-7	FCS-OU3-0370-AREA-C-F3-47.75-7	FCS-OU3-0316-ALLEY-F-50.10-7	FCS-OU3-0348-AREA-N34-F8-48.50-7
				48.20 ft. MSL	47.75 ft. MSL	50.10 ft. MSL	48.50 ft. MSL
				3.8 ft. BGS	4.25 ft. BGS	1.9 ft. BGS	3.5 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	67 U	67 U	67 U	67 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	67 U	67 U	67 U	67 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	67 U	67 U	67 U	67 U
50-32-8	Benzo(a)pyrene	660	ug/kg	67 U	67 U	67 U	67 U
218-01-9	Chrysene	90000	ug/kg	67 U	67 U	67 U	67 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	67 U	67 U	67 U	67 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	67 U	67 U	67 U	67 U

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	38	39
				FCS-OU3-0288-ALLEY-W5-48.50-7	FCS-OU3-0301-AREA-N34-W18-A-49.80-7
				48.50 ft. MSL	49.80 ft. MSL
				4.5 ft. BGS	2.2 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	67 U	67 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	67 U	67 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	67 U	67 U
50-32-8	Benzo(a)pyrene	660	ug/kg	67 U	67 U
218-01-9	Chrysene	90000	ug/kg	67 U	67 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	67 U	67 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	67 U	67 U

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

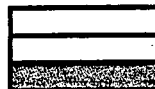
D - Diluted Sample Results

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Confirmation Sample >

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Confirmation/Documentation Sample Results for the Central Area

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	42	43	44	45
				FCS-OU3-0458-AREA-C-F19-48.30-7	FCS-OU3-0463-AREA-BX-F6-50.40-7	FCS-OU3-0464-AREA-BX-F7-49.30-7	FCS-OU3-0462-AREA-BX-F5-49.10-7
				48.30 ft. MSL	50.40 ft. MSL	49.30 ft. MSL	49.10 ft. MSL
				3.7 ft. BGS	1.6 ft. BGS	2.7 ft. BGS	2.9 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	67 U	67 U	67 U	67 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	67 U	67 U	67 U	67 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	67 U	67 U	67 U	67 U
50-32-8	Benzo(a)pyrene	660	ug/kg	67 U	67 U	67 U	67 U
218-01-9	Chrysene	90000	ug/kg	67 U	67 U	67 U	67 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	67 U	67 U	67 U	67 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	67 U	67 U	67 U	67 U

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS
56-55-3	Benzo(a)anthracene	900	ug/kg
205-99-2	Benzo(b)fluoranthene	900	ug/kg
207-08-9	Benzo(k)fluoranthene	9000	ug/kg
50-32-8	Benzo(a)pyrene	660	ug/kg
218-01-9	Chrysene	90000	ug/kg
53-70-3	Dibenz(a,h)anthracene	660	ug/kg
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

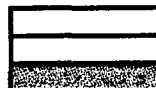
D - Diluted Sample Results

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Confirmation/Documentation Sample Results for the Central Area

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	46	47	48	49
				FCS-OU3-0329-AREA-N34-F5-48.80-7	FCS-OU3-0345-AREA-N34-F7-48.30-7	FCS-OU3-0440-AREA-B-F10-49.50-7	FCS-OU3-0330-AREA-N34-F6-48.70-7
				48.80 ft. MSL	48.30 ft. MSL	49.50 ft. MSL	48.70 ft. MSL
				5.2 ft. BGS	3.7 ft. BGS	2.5 ft. BGS	3.3 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	67 U	67 U	67 U	90
205-99-2	Benzo(b)fluoranthene	900	ug/kg	67 U	67 U	67 U	80
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	67 U	67 U	67 U	67 U
50-32-8	Benzo(a)pyrene	660	ug/kg	67 U	67 U	67 U	67 U
218-01-9	Chrysene	90000	ug/kg	67 U	67 U	67 U	98
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	67 U	67 U	67 U	67 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	67 U	67 U	67 U	67 U

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS
56-55-3	Benzo(a)anthracene	900	ug/kg
205-99-2	Benzo(b)fluoranthene	900	ug/kg
207-08-9	Benzo(k)fluoranthene	9000	ug/kg
50-32-8	Benzo(a)pyrene	660	ug/kg
218-01-9	Chrysene	90000	ug/kg
53-70-3	Dibenz(a,h)anthracene	660	ug/kg
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

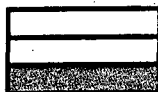
D - Diluted Sample Results

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Confirmation/Documentation Sample Results for the Central Area

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	50	51	52	53
				FCS-OU3-0442-AREA-B-F11-48.72-7	FCS-OU3-0326-AREA-N34-F2-47.0-7	FCS-OU3-0439-AREA-B-F9-48.55-7	FCS-OU3-0328-AREA-N34-F4-48.90-7
				48.72 ft. MSL 3.28 ft. BGS	47.0 ft. MSL 5.0 ft. BGS	48.55 ft. MSL 5.45 ft. BGS	48.90 ft. MSL 5.1 ft. BGS
56-55-3	Benzo(a)anthracene	800	ug/kg	67 U	67 U	67 U	67 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	67 U	67 U	67 U	67 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	67 U	67 U	67 U	67 U
50-32-8	Benzo(a)pyrene	860	ug/kg	67 U	67 U	67 U	67 U
218-01-9	Chrysene	90000	ug/kg	67 U	67 U	67 U	67 U
53-70-3	Dibenz(a,h)anthracene	860	ug/kg	67 U	67 U	67 U	67 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	67 U	67 U	67 U	67 U

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS
56-55-3	Benzo(a)anthracene	800	ug/kg
205-99-2	Benzo(b)fluoranthene	900	ug/kg
207-08-9	Benzo(k)fluoranthene	9000	ug/kg
50-32-8	Benzo(a)pyrene	860	ug/kg
218-01-9	Chrysene	90000	ug/kg
53-70-3	Dibenz(a,h)anthracene	860	ug/kg
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

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Confirmation/Documentation Sample Results for the Central Area

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	54	55	56	57
				FCS-OU3-0420-AREA-B-F8-48.30-7	FCS-OU3-0443-AREA-B-F12-48.40-7	FCS-OU3-0327-AREA-N34-F3-47.0-7	FCS-OU3-0419-AREA-B-F7-49.20-7
				48.30 ft. MSL	48.40 ft. MSL	47.0 ft. MSL	49.20 ft. MSL
				3.7 ft. BGS	3.6 ft. BGS	5.0 ft. BGS	2.8 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	67 U	67 U	140	67 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	67 U	67 U	164	67 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	67 U	67 U	78	67 U
50-32-8	Benzo(a)pyrene	660	ug/kg	67 U	67 U	103	67 U
218-01-9	Chrysene	90000	ug/kg	67 U	67 U	139	67 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	67 U	67 U	67 U	67 U
183-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	67 U	67 U	67 U	67 U

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS
56-55-3	Benzo(a)anthracene	900	ug/kg
205-99-2	Benzo(b)fluoranthene	900	ug/kg
207-08-9	Benzo(k)fluoranthene	9000	ug/kg
50-32-8	Benzo(a)pyrene	660	ug/kg
218-01-9	Chrysene	90000	ug/kg
53-70-3	Dibenz(a,h)anthracene	660	ug/kg
183-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

D - Diluted Sample Results

Legend

Confirmation Sample >

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Confirmation/Documentation Sample Results for the Central Area

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	58	59	60
				FCS-OU3-0444-AREA-B-F13-47.20-7	FCS-OU3-0475-AREA-B-F14-49.50-7	FCS-OU3-0299-AREA-N34-W17-49.50-7
				47.20 ft. MSL	49.50 ft. MSL	49.50 ft. MSL
				4.8 ft. BGS	2.5 ft. BGS	2.5 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	67 U	67 U	67 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	67 U	67 U	67 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	67 U	67 U	67 U
50-32-8	Benzo(a)pyrene	660	ug/kg	67 U	67 U	67 U
218-01-9	Chrysene	90000	ug/kg	67 U	67 U	67 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	67 U	67 U	67 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	67 U	67 U	67 U

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS
56-55-3	Benzo(a)anthracene	900	ug/kg
205-99-2	Benzo(b)fluoranthene	900	ug/kg
207-08-9	Benzo(k)fluoranthene	9000	ug/kg
50-32-8	Benzo(a)pyrene	660	ug/kg
218-01-9	Chrysene	90000	ug/kg
53-70-3	Dibenz(a,h)anthracene	660	ug/kg
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

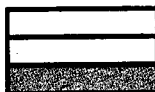
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Confirmation/Documentation Sample Results for the Southwest Area - SW1

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	1	2	3	4	5
				RUSTIC-S6326A	RUSTIC-S6350A	RUSTIC-S6353A	RUSTIC-S6354A	Rustic-D077A
				51 to 52.5 ft. MSL	51 to 51.5 ft. MSL	51 to 51.6 ft. MSL	51 to 51.6 ft. MSL	51 to 52.5 ft. MSL
				0.5 to 2 ft. BGS	1.5 to 2 ft. BGS	1.4 to 2 ft. BGS	1.4 to 2 ft. BGS	0.5 to 2 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	340 J	91 J	390 U	390 U	390 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	600	97 J	390 U	390 U	64 J
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	260 J	61 J	390 U	390 U	390 U
50-32-8	Benzo(a)pyrene	660	ug/kg	310 J	71 J	390 U	390 U	390 U
218-01-9	Chrysene	90000	ug/kg	450	83 J	390 U	390 U	66 J
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	380 U	390 U	390 U	390 U	390 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	91 J	42 J	390 U	390 U	390 U

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	1	2	3	4
				RUSTIC-S6357B	RUSTIC-S6357B-D	RUSTIC-S6356B	RUSTIC-S6343B
				49 to 51 ft. MSL	49 to 51 ft. MSL	49 to 51 ft. MSL	49 to 51 ft. MSL
				2 to 4 ft. BGS	2 to 4 ft. BGS	2 to 4 ft. BGS	2 to 4 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	71 J	65 J	390 U	380 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	500	390	840	380 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	150 J	150 J	520	380 U
50-32-8	Benzo(a)pyrene	660	ug/kg	330 J	310 J	440	380 U
218-01-9	Chrysene	90000	ug/kg	160 J	150 J	390 U	380 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	160 J	140 J	390 U	380 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	460	380	330 J	380 U

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

D - Diluted Sample Results

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502038

Confirmation/Documentation Sample Results for the Southwest Area - SW1

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	6	7	8	9	10
				RUSTIC-S6355A	RUSTIC-S219A	RUSTIC-S6577A	FCS-OU3-0014-SW1-W1D-52.0-7	FCS-OU3-0010-SW1-W2-51.0-7
				51 to 51.4 ft. MSL 1.6 to 2 ft. BGS	51 to 52.5 ft. MSL 0.5 to 2 ft. BGS	51 to 53 ft. MSL 0 to 2 ft. BGS	52 ft. MSL 1 ft. BGS	51 ft. MSL 2 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	400 U	380 UJ	340 J	516	67 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	400 U	380 UJ	660	865	125
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	400 U	380 U	200 J	216	131
50-32-8	Benzo(a)pyrene	660	ug/kg	400 U	380 U	320 J	574	67 U
218-01-9	Chrysene	90000	ug/kg	400 U	380 U	500	585	81
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	400 U	380 UJ	380 U	131	67 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	400 U	380 U	380 U	371	67 U

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	5	6	7	8	9
				RUSTIC-S6341B	RUSTIC-S6019B	RUSTIC-S6340B	RUSTIC-S6348B	RUSTIC-S6327B
				49 to 51 ft. MSL 2 to 4 ft. BGS	49 to 51 ft. MSL 2 to 4 ft. BGS	49 to 51 ft. MSL 2 to 4 ft. BGS	49 to 51 ft. MSL 2 to 4 ft. BGS	49 to 51 ft. MSL 2 to 4 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	400 U	280 J	380 U	120 J	380 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	400 U	330 J	380 U	660	380 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	400 U	140 J	380 U	210 J	380 U
50-32-8	Benzo(a)pyrene	660	ug/kg	400 U	230 J	380 U	400	380 U
218-01-9	Chrysene	90000	ug/kg	400 U	290 J	380 U	340 J	380 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	400 U	400 U	380 U	76 J	380 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	400 U	120 J	380 U	310 J	380 U

*NOTE: All data has been validated

Data Qualifiers:
 ND - No Data
 U - Non Detect
 J - Estimated Value
 D - Diluted Sample Results

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Confirmation Sample >
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502039

Confirmation/Documentation Sample Results for the Southwest Area - SW1

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	11	
				FCS-OU3-0035-SW1-W3A-52.0-7	
				52 ft. MSL	
				1 ft. BGS	
56-55-3	Benzo(a)anthracene	900	ug/kg	67	U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	67	U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	67	U
50-32-8	Benzo(a)pyrene	660	ug/kg	67	U
218-01-9	Chrysene	90000	ug/kg	67	U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	67	U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	67	U

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	10		11		12		13	
				RUSTIC-S6029B		RUSTIC-S6021B		RUSTIC-S6022B		RUSTIC-S6339B	
				49 to 51 ft. MSL		49 to 51 ft. MSL		49 to 51 ft. MSL		49 to 51 ft. MSL	
				2 to 4 ft. BGS		2 to 4 ft. BGS		2 to 4 ft. BGS		2 to 4 ft. BGS	
56-55-3	Benzo(a)anthracene	900	ug/kg	380	U	380	U	400	U	390	U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	380	U	380	U	400	U	390	U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	380	U	380	U	400	U	390	U
50-32-8	Benzo(a)pyrene	660	ug/kg	380	U	380	U	400	U	390	U
218-01-9	Chrysene	90000	ug/kg	380	U	380	U	400	U	390	U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	380	U	380	U	400	U	390	U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	380	U	380	U	400	U	390	U

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

D - Diluted Sample Results

Legend

Confirmation Sample >

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502040

Confirmation/Documentation Sample Results for the Southwest Area - SW1

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS
56-55-3	Benzo(a)anthracene	900	ug/kg
205-99-2	Benzo(b)fluoranthene	900	ug/kg
207-08-9	Benzo(k)fluoranthene	9000	ug/kg
50-32-8	Benzo(a)pyrene	660	ug/kg
218-01-9	Chrysene	90000	ug/kg
53-70-3	Dibenz(a,h)anthracene	660	ug/kg
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg

BOTTOM SAMPLES

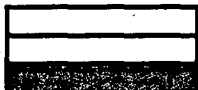
CAS#	COMPOUND	ACG CRITERIA	UNITS	14	15	16	17	
				RUSTIC-S216B	RUSTIC-S6020B	RUSTIC-S6024B	RUSTIC-S6025B	RUSTIC-S6025B-D
				49 to 51 ft. MSL	49 to 51 ft. MSL	49 to 51 ft. MSL	49 to 51 ft. MSL	49 to 51 ft. MSL
				2 to 4 ft. BGS	2 to 4 ft. BGS	2 to 4 ft. BGS	2 to 4 ft. BGS	2 to 4 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	380 R	380 U	390 U	390 U	380 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	380 R	380 U	390 U	390 U	380 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	380 R	380 U	390 U	390 U	380 U
50-32-8	Benzo(a)pyrene	660	ug/kg	380 R	380 U	390 U	390 U	380 U
218-01-9	Chrysene	90000	ug/kg	380 R	380 U	390 U	390 U	380 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	380 R	380 U	390 U	390 U	380 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	380 R	380 U	390 U	390 U	380 U

*NOTE: All data has been validated

Data Qualifiers:
 ND - No Data
 U - Non Detect
 J - Estimated Value
 D - Diluted Sample Results

Legend

Confirmation Sample >
 Documentation Sample below Cleanup Goals >
 Documentation Sample above Cleanup Goals >



502041

Confirmation/Documentation Sample Results for the Southwest Area - SW1

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS
56-55-3	Benzo(a)anthracene	900	ug/kg
205-99-2	Benzo(b)fluoranthene	900	ug/kg
207-08-9	Benzo(k)fluoranthene	9000	ug/kg
50-32-8	Benzo(a)pyrene	660	ug/kg
218-01-9	Chrysene	90000	ug/kg
53-70-3	Dibenz(a,h)anthracene	660	ug/kg
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	18	19
				RUSTIC-S6018B	RUSTIC-S6576B
				49 to 51 ft. MSL	49 to 51 ft. MSL
				2 to 4 ft. BGS	2 to 4 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	78 J	110 J
205-99-2	Benzo(b)fluoranthene	900	ug/kg	160 J	220 J
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	67 J	75 J
50-32-8	Benzo(a)pyrene	660	ug/kg	92 J	110 J
218-01-9	Chrysene	90000	ug/kg	83 J	160 J
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	390 U	410 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	68 J	79 J

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

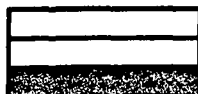
D - Diluted Sample Results

Legend

Confirmation Sample >

Documentation Sample below Cleanup Goals >

Documentation Sample above Cleanup Goals >



502042

Confirmation/Documentation Sample Results for the Southwest Area - SW2

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	1	2	3	4
				RUSTIC-S6339B	RUSTIC-S6339B-D	Rustic-S6022B	Rustic-S216B
				49 to 51 ft. MSL	49 to 51 ft. MSL	49 to 51 ft. MSL	49 to 51 ft. MSL
				2 to 4 ft. BGS	2 to 4 ft. BGS	2 to 4 ft. BGS	2 to 4 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	390 U	390 U	400 U	380 R
205-99-2	Benzo(b)fluoranthene	900	ug/kg	390 U	390 U	400 U	380 R
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	390 U	390 U	400 U	380 R
50-32-8	Benzo(a)pyrene	660	ug/kg	390 U	390 U	400 U	380 R
218-01-9	Chrysene	90000	ug/kg	390 U	390 U	400 U	380 R
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	390 U	390 U	400 U	380 R
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	390 U	390 U	400 U	380 R

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	1	2
				RUSTIC-S6346A	RUSTIC-S6346A-D
				47 to 49 ft. MSL	47 to 49 ft. MSL
				4 to 6 ft. BGS	4 to 6 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	160 J	130 J
205-99-2	Benzo(b)fluoranthene	900	ug/kg	210 J	160 J
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	120 J	76 J
50-32-8	Benzo(a)pyrene	660	ug/kg	110 J	85 J
218-01-9	Chrysene	90000	ug/kg	160 J	140 J
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	380 U	390 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	380 U	390 U

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

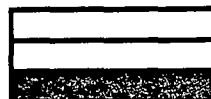
D - Diluted Sample Results

Legend

Confirmation Sample >

Documentation Sample below Cleanup Goals >

Documentation Sample above Cleanup Goals >



502043

Confirmation/Documentation Sample Results for the Southwest Area - SW3

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	1		2		3		4	
				RUSTIC-S6328B	RUSTIC-S6328C	RUSTIC-S6347A	Rustic-S6024B	Rustic-S6024B	Rustic-S6025B	Rustic-S6025B	Rustic-S6025B
				49 to 51 ft. MSL	47 to 49 ft. MSL	47 to 49 ft. MSL	49 to 51 ft. MSL	49 to 51 ft. MSL	49 to 51 ft. MSL	49 to 51 ft. MSL	49 to 51 ft. MSL
				2 to 4 ft. BGS	4 to 6 ft. BGS	4 to 6 ft. BGS	2 to 4 ft. BGS	2 to 4 ft. BGS	2 to 4 ft. BGS	2 to 4 ft. BGS	2 to 4 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	380 U	370 U	340 U	390 U	390 U	390 U	390 U	390 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	380 U	47 J	340 U	390 U	390 U	390 U	390 U	390 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	380 U	370 U	340 U	390 U	390 U	390 U	390 U	390 U
50-32-8	Benzo(a)pyrene	660	ug/kg	380 U	370 U	340 U	390 U	390 U	390 U	390 U	390 U
218-01-9	Chrysene	90000	ug/kg	380 U	370 U	340 U	390 U	390 U	390 U	390 U	390 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	380 U	370 U	340 U	390 U	390 U	390 U	390 U	390 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	380 U	370 U	340 U	390 U	390 U	390 U	390 U	390 U

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	1		2		3		4	
				RUSTIC-S6336C	RUSTIC-S6337B	RUSTIC-S6338C	RUSTIC-S6338C	RUSTIC-S6338C	RUSTIC-S6338C	RUSTIC-S6328D	RUSTIC-S6328D
				45 to 47 ft. MSL	45 to 47 ft. MSL	45 to 47 ft. MSL	45 to 47 ft. MSL	45 to 47 ft. MSL	45 to 47 ft. MSL	45 to 47 ft. MSL	45 to 47 ft. MSL
				6 to 8 ft. BGS	6 to 8 ft. BGS	6 to 8 ft. BGS	6 to 8 ft. BGS	6 to 8 ft. BGS	6 to 8 ft. BGS	6 to 8 ft. BGS	6 to 8 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	360 U	110 J	370 U	370 U	370 U	370 U	370 U	370 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	360 U	120 J	370 U	370 U	370 U	370 U	370 U	370 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	360 U	58 J	370 U	370 U	370 U	370 U	370 U	370 U
50-32-8	Benzo(a)pyrene	660	ug/kg	360 U	89 J	370 U	370 U	370 U	370 U	370 U	370 U
218-01-9	Chrysene	90000	ug/kg	360 U	110 J	370 U	370 U	370 U	370 U	370 U	370 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	360 U	350 U	370 U	370 U	370 U	370 U	370 U	370 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	360 U	39 J	370 U	370 U	370 U	370 U	370 U	370 U

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

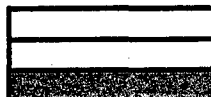
D - Diluted Sample Results

Legend

Confirmation Sample >

Documentation Sample below Cleanup Goals >

Documentation Sample above Cleanup Goals >



502044

Confirmation/Documentation Sample Results for the Southwest Area - SW3

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	4 (continued)	
				Rustic-S6025B-D	
				49 to 51 ft. MSL	
				2 to 4 ft. BGS	
56-55-3	Benzo(a)anthracene	900	ug/kg	380	U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	380	U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	380	U
50-32-8	Benzo(a)pyrene	660	ug/kg	380	U
218-01-9	Chrysene	90000	ug/kg	380	U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	380	U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	380	U

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS
56-55-3	Benzo(a)anthracene	900	ug/kg
205-99-2	Benzo(b)fluoranthene	900	ug/kg
207-08-9	Benzo(k)fluoranthene	9000	ug/kg
50-32-8	Benzo(a)pyrene	660	ug/kg
218-01-9	Chrysene	90000	ug/kg
53-70-3	Dibenz(a,h)anthracene	660	ug/kg
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

D - Diluted Sample Results

Legend

Confirmation Sample >

Documentation Sample below Cleanup Goals >

Documentation Sample above Cleanup Goals >



502045

Confirmation/Documentation Sample Results for the Southwest Area - SW4

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	1	2	3	4
				RUSTIC-S6360A	RUSTIC-S6360B	Rustic-S6018B	FCS-OU3-0039-SW4-W1A-47.0-7
				44 to 46 ft. MSL	42 to 44 ft. MSL	46 to 48 ft. MSL	47 ft. MSL
				4 to 6 ft. BGS	6 to 8 ft. BGS	2 to 4 ft. BGS	6 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	380 U	370 U	78 J	67 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	50 J	370 U	160 J	67 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	380 U	370 U	67 J	67 U
50-32-8	Benzo(a)pyrene	660	ug/kg	380 U	370 U	92 J	67 U
218-01-9	Chrysene	90000	ug/kg	39 J	370 U	83 J	67 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	380 U	370 U	390 U	67 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	380 U	370 U	68 J	67 U

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	1	2
				FCS-OU3-0030-SW4-F1-44.0-7	FCS-OU3-0032-SW4-F2-43.9-7
				44 ft. MSL	43.9 ft. MSL
				9 ft. BGS	9.1 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	67 U	67 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	67 U	67 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	67 U	67 U
50-32-8	Benzo(a)pyrene	660	ug/kg	67 U	67 U
218-01-9	Chrysene	90000	ug/kg	67 U	67 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	67 U	67 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	67 U	67 U

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

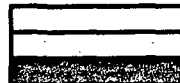
D - Diluted Sample Results

Legend

Confirmation Sample >

Documentation Sample below Cleanup Goals >

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502046

Confirmation/Documentation Sample Results for the Southwest Area - SW5

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	1	
				Rustic-S6020B	
				51.5 to 49.5 ft. MSL	
				2 to 4 ft. BGS	
56-55-3	Benzo(a)anthracene	900	ug/kg	390	U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	390	U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	390	U
50-32-8	Benzo(a)pyrene	660	ug/kg	390	U
218-01-9	Chrysene	90000	ug/kg	390	U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	390	U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	390	U

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	1	
				RUSTIC-S6358E	
				44 to 46 ft. MSL	
				8 to 10 ft. BGS	
56-55-3	Benzo(a)anthracene	900	ug/kg	350	U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	350	U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	350	U
50-32-8	Benzo(a)pyrene	660	ug/kg	350	U
218-01-9	Chrysene	90000	ug/kg	350	U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	350	U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	350	U

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

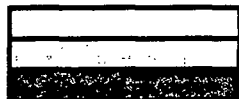
D - Diluted Sample Results

Legend

Confirmation Sample >

Documentation Sample below Cleanup Goals >

Documentation Sample above Cleanup Goals >



502047

Confirmation/Documentation Sample Results for the Southwest Area - SW6

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	1		2		3	
				RUSTIC-S6369B	RUSTIC-S6369C	Rustic-S218B	Rustic-S220A	Rustic-S220B	
				49 to 51 ft. MSL	47 to 49 ft. MSL	49 to 51 ft. MSL	51 to 52.5 ft. MSL	49 to 51 ft. MSL	
				2 to 4 ft. BGS	4 to 6 ft. BGS	2 to 4 ft. BGS	0.5 to 2 ft. BGS	2 to 4 ft. BGS	
56-55-3	Benzo(a)anthracene	900	ug/kg	520	480	350 UJ	380 J	350 UJ	
205-99-2	Benzo(b)fluoranthene	900	ug/kg	730	550	350 UJ	440 J	350 UJ	
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	340 J	280 J	350 U	270 J	350 U	
50-32-8	Benzo(a)pyrene	660	ug/kg	500	330 J	350 U	260 J	350 U	
218-01-9	Chrysene	90000	ug/kg	550	470	350 U	420	350 U	
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	96 J	59 J	350 UJ	86 J	350 UJ	
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	250 J	170 J	350 U	160 J	350 U	

BOTTOM SAMPLES

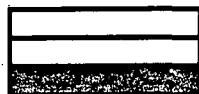
CAS#	COMPOUND	ACG CRITERIA	UNITS	1	2	3	4	5
				RUSTIC-S6385G	RUSTIC-S6578D	RUSTIC-S6369D	FCS-OU3-0073-SW6-F1-33.3-7	FCS-OU3-0092-SW6-F2-46.9-7
				39 to 41 ft. MSL	45 to 47 ft. MSL	45 to 47 ft. MSL	33.3 ft. MSL	46.9 ft. MSL
				12 to 14 ft. BGS	8 to 8 ft. BGS	8 to 8 ft. BGS	19.7 ft. BGS	6.1 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	350 U	350 U	350 U	590	67 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	350 U	350 U	350 U	590	67 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	350 U	350 U	350 U	722	67 U
50-32-8	Benzo(a)pyrene	660	ug/kg	350 U	350 U	350 U	590	67 U
218-01-9	Chrysene	90000	ug/kg	350 U	350 U	350 U	1850	67 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	350 U	350 U	350 U	263	67 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	350 U	350 U	350 U	567	67 U

*NOTE: All data has been validated

Data Qualifiers:
 ND - No Data
 U - Non Detect
 J - Estimated Value
 D - Diluted Sample Results

Legend

Confirmation Sample >
 Documentation Sample below Cleanup Goals >
 Documentation Sample above Cleanup Goals >



502048

Confirmation/Documentation Sample Results for the Southwest Area - SW6

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	4	5	6	7
				FCS-OU3-0045-SW6-W1-40.0-7	FCS-OU3-0075-SW6-W2-36.8-7	FCS-OU3-0078-SWA2-W1-34.0-7	FCS-OU3-0093-SW6-W3-49.5-7
				40 ft. MSL	36.8 ft. MSL	34.0 ft. MSL	49.5 ft. MSL
				13 ft. BGS	16.4 ft. BGS	19.0 ft. BGS	3.5 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	115	108	809	67 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	150	150	723	67 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	67 U	67 U	101	67 U
50-32-8	Benzo(a)pyrene	660	ug/kg	117	99	550	67 U
218-01-9	Chrysene	90000	ug/kg	87	122	734	67 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	67 U	67 U	90	67 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	204	67 U	193	67 U

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS
56-55-3	Benzo(a)anthracene	900	ug/kg
205-99-2	Benzo(b)fluoranthene	900	ug/kg
207-08-9	Benzo(k)fluoranthene	9000	ug/kg
50-32-8	Benzo(a)pyrene	660	ug/kg
218-01-9	Chrysene	90000	ug/kg
53-70-3	Dibenz(a,h)anthracene	660	ug/kg
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

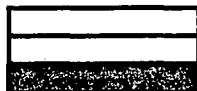
D - Diluted Sample Results

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502049

Confirmation/Documentation Sample Results for the Southwest Area - SW7

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	1			
				Rustic-S6015A	Rustic-S6015B	Rustic-S6015C	Rustic-S6015C-D
				51 to 53 ft. MSL	49 to 51 ft. MSL	47 to 49 ft. MSL	47 to 49 ft. MSL
				0 to 2 ft. BGS	2 to 4 ft. BGS	4 to 6 ft. BGS	4 to 6 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	410	350 U	360 U	350 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	360 J	350 U	360 U	59 J
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	150 J	350 U	360 U	350 U
50-32-8	Benzo(a)pyrene	660	ug/kg	220 J	350 U	360 U	350 U
218-01-9	Chrysene	90000	ug/kg	370	350 U	360 U	350 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	37 J	350 U	360 U	350 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	110 J	350 U	360 U	350 U

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	1	2
				RUSTIC-S6228D	RUSTIC-S6217D
				45 to 47 ft. MSL	45 to 47 ft. MSL
				6 to 8 ft. BGS	6 to 8 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	350 U	47 J
205-99-2	Benzo(b)fluoranthene	900	ug/kg	350 U	70 J
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	350 U	350 U
50-32-8	Benzo(a)pyrene	660	ug/kg	350 U	350 U
218-01-9	Chrysene	90000	ug/kg	350 U	54 J
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	350 U	350 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	350 U	350 U

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

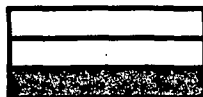
D - Diluted Sample Results

Legend

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502050

Confirmation/Documentation Sample Results for the Southwest Area - SW7

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	2			
				RUSTIC-S6227A	RUSTIC-S6227B	RUSTIC-S6227C	RUSTIC-S6227C-D
				51 to 52.2 ft. MSL	49 to 51 ft. MSL	47 to 49 ft. MSL	47 to 49 ft. MSL
				0.8 to 2 ft. BGS	2 to 4 ft. BGS	4 to 6 ft. BGS	4 to 6 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	370 U	340 U	350 U	340 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	370 U	340 U	350 U	340 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	370 U	340 U	350 U	340 U
50-32-8	Benzo(a)pyrene	660	ug/kg	370 U	340 U	350 U	340 U
218-01-9	Chrysene	90000	ug/kg	78 J	340 U	350 U	340 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	370 U	340 U	350 U	340 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	370 U	340 U	350 U	340 U

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS
56-55-3	Benzo(a)anthracene	900	ug/kg
205-99-2	Benzo(b)fluoranthene	900	ug/kg
207-08-9	Benzo(k)fluoranthene	9000	ug/kg
50-32-8	Benzo(a)pyrene	660	ug/kg
218-01-9	Chrysene	90000	ug/kg
53-70-3	Dibenz(a,h)anthracene	660	ug/kg
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg

*NOTE: All data has been validated --

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

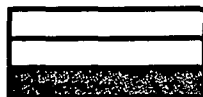
D - Diluted Sample Results

Legend

Confirmation Sample >

Documentation Sample below Cleanup Goals >

Documentation Sample above Cleanup Goals >



502051

Confirmation/Documentation Sample Results for the Southwest Area - SW7

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	3			4
				RUSTIC-S6586A	RUSTIC-S6586B	RUSTIC-S6586C	FCS-OU3-0259-SW7-W-48.5-7
				51 to 53 ft. MSL	49 to 51 ft. MSL	47 to 49 ft. MSL	48.5 ft. MSL
				0 to 2 ft. BGS	2 to 4 ft. BGS	4 to 6 ft. BGS	4.5 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	360 U	360 U	360 U	67 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	360 U	360 U	360 U	67 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	360 U	360 U	360 U	67 U
50-32-8	Benzo(a)pyrene	660	ug/kg	360 U	360 U	360 U	67 U
218-01-9	Chrysene	90000	ug/kg	360 U	360 U	360 U	67 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	360 U	360 U	360 U	67 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	360 U	360 U	360 U	67 U

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS
56-55-3	Benzo(a)anthracene	900	ug/kg
205-99-2	Benzo(b)fluoranthene	900	ug/kg
207-08-9	Benzo(k)fluoranthene	9000	ug/kg
50-32-8	Benzo(a)pyrene	660	ug/kg
218-01-9	Chrysene	90000	ug/kg
53-70-3	Dibenz(a,h)anthracene	660	ug/kg
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

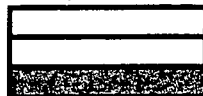
D - Diluted Sample Results

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Confirmation Sample >

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Documentation Sample above Cleanup Goals >



502052

Confirmation/Documentation Sample Results for the Southwest Area - SW8

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	1		2		3	
				RUSTIC-S6214D	RUSTIC-S6214E	RUSTIC-S6217D	RUSTIC-S6217E	RUSTIC-S6215A	
				45 to 47 ft. MSL	43 to 45 ft. MSL	45 to 47 ft. MSL	43 to 45 ft. MSL	51 to 52.3 ft. MSL	
				6 to 8 ft. BGS	8 to 10 ft. BGS	6 to 8 ft. BGS	8 to 10 ft. BGS	0.7 to 2 ft. BGS	
56-55-3	Benzo(a)anthracene	900	ug/kg	340 U	670	47 J	44 J	390 U	
205-99-2	Benzo(b)fluoranthene	900	ug/kg	340 U	560	70 J	350 U	390 U	
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	340 U	240 J	350 U	350 U	390 U	
50-32-8	Benzo(a)pyrene	660	ug/kg	340 U	420	350 U	350 U	390 U	
218-01-9	Chrysene	90000	ug/kg	340 U	540	54 J	36 J	390 U	
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	340 U	46 J	350 U	350 U	390 U	
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	340 U	150 J	350 U	350 U	390 U	

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	1	2
				RUSTIC-S6016F	RUSTIC-S6226F
				41 to 43 ft. MSL	41 to 43 ft. MSL
				10 to 12 ft. BGS	10 to 12 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	340 U	350 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	340 U	350 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	340 U	350 U
50-32-8	Benzo(a)pyrene	660	ug/kg	340 U	350 U
218-01-9	Chrysene	90000	ug/kg	340 U	350 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	340 U	350 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	340 U	350 U

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

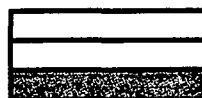
D - Diluted Sample Results

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502053

Confirmation/Documentation Sample Results for the Southwest Area - SW8

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	3 (continued)				
				RUSTIC-S6215B	RUSTIC-S6215C	RUSTIC-S6215D	RUSTIC-S6215D-D	RUSTIC-S6215E
				49 to 51 ft. MSL	47 to 49 ft. MSL	45 to 47 ft. MSL	45 to 47 ft. MSL	43 to 45 ft. MSL
				2 to 4 ft. BGS	4 to 6 ft. BGS	6 to 8 ft. BGS	6 to 8 ft. BGS	8 to 10 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	380 U	48 J	350 U	350 U	350 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	380 U	360 U	350 U	350 U	350 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	380 U	360 U	350 U	350 U	350 U
50-32-8	Benzo(a)pyrene	660	ug/kg	380 U	360 U	350 U	350 U	350 U
218-01-9	Chrysene	90000	ug/kg	380 U	38 J	350 U	350 U	350 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	380 U	360 U	350 U	350 U	350 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	380 U	360 U	350 U	350 U	350 U

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS
56-55-3	Benzo(a)anthracene	900	ug/kg
205-99-2	Benzo(b)fluoranthene	900	ug/kg
207-08-9	Benzo(k)fluoranthene	9000	ug/kg
50-32-8	Benzo(a)pyrene	660	ug/kg
218-01-9	Chrysene	90000	ug/kg
53-70-3	Dibenz(a,h)anthracene	660	ug/kg
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

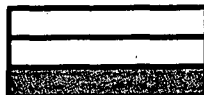
D - Diluted Sample Results

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Confirmation Sample >

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502054

Confirmation/Documentation Sample Results for the Southwest Area - SW8

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	4				
				RUSTIC-S6587A	RUSTIC-S6587B	RUSTIC-S6587C	RUSTIC-S6587D	RUSTIC-S6587E
				51 to 53 ft. MSL	49 to 51 ft. MSL	47 to 49 ft. MSL	45 to 47 ft. MSL	43 to 45 ft. MSL
				0 to 2 ft. BGS	2 to 4 ft. BGS	4 to 6 ft. BGS	6 to 8 ft. BGS	8 to 10 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	260 J	94 J	350 U	340 U	350 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	640	200 J	350 U	340 U	350 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	220 J	86 J	350 U	340 U	350 U
50-32-8	Benzo(a)pyrene	660	ug/kg	260 J	370 U	350 U	340 U	350 U
218-01-9	Chrysene	90000	ug/kg	420	130 J	350 U	340 U	350 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	60 J	370 U	350 U	340 U	350 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	190 J	370 U	350 U	340 U	350 U

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS
56-55-3	Benzo(a)anthracene	900	ug/kg
205-99-2	Benzo(b)fluoranthene	900	ug/kg
207-08-9	Benzo(k)fluoranthene	9000	ug/kg
50-32-8	Benzo(a)pyrene	660	ug/kg
218-01-9	Chrysene	90000	ug/kg
53-70-3	Dibenz(a,h)anthracene	660	ug/kg
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

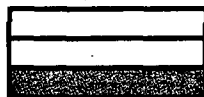
D - Diluted Sample Results

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502055

Confirmation/Documentation Sample Results for the Southwest Area - SW8

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	5	
				Rustic-S217A	Rustic-S217B
				50.5 to 52 ft. MSL	48.5 to 50.5 ft. MSL
				0.5 to 2 ft. BGS	2 to 4 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	360 U	350 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	360 U	350 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	360 U	350 U
50-32-8	Benzo(a)pyrene	660	ug/kg	360 U	350 U
218-01-9	Chrysene	90000	ug/kg	360 U	350 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	360 U	350 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	360 U	350 U

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS
56-55-3	Benzo(a)anthracene	900	ug/kg
205-99-2	Benzo(b)fluoranthene	900	ug/kg
207-08-9	Benzo(k)fluoranthene	9000	ug/kg
50-32-8	Benzo(a)pyrene	660	ug/kg
218-01-9	Chrysene	90000	ug/kg
53-70-3	Dibenz(a,h)anthracene	660	ug/kg
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

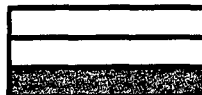
D - Diluted Sample Results

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Confirmation Sample >

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502056

Confirmation/Documentation Sample Results for the Southwest Area - SW9

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	1			2	
				RUSTIC-S6333B	RUSTIC-S6333C	RUSTIC-S6333D	RUSTIC-S6331B	RUSTIC-S6331C
				49 to 51 ft. MSL	47 to 49 ft. MSL	45 to 47 ft. MSL	49 to 51 ft. MSL	47 to 49 ft. MSL
				2 to 4 ft. BGS	4 to 6 ft. BGS	6 to 8 ft. BGS	2 to 4 ft. BGS	4 to 6 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	67 J	110 J	360 U	390 U	280 J
205-99-2	Benzo(b)fluoranthene	900	ug/kg	94 J	160 J	360 U	390 U	490
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	48 J	53 J	360 U	390 U	200 J
50-32-8	Benzo(a)pyrene	660	ug/kg	61 J	110 J	360 U	390 U	340 J
218-01-9	Chrysene	90000	ug/kg	83 J	150 J	360 U	390 U	250 J
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	380 U	370 U	360 U	390 U	380 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	380 U	45 J	380 U	390 U	150 J

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	1	2	3
				RUSTIC-S6332E	RUSTIC-S6331E	RUSTIC-S6333E
				43 to 45 ft. MSL	43 to 45 ft. MSL	43 to 45 ft. MSL
				8 to 10 ft. BGS	8 to 10 ft. BGS	8 to 10 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	350 U	360 U	350 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	36 J	360 U	350 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	350 U	360 U	350 U
50-32-8	Benzo(a)pyrene	660	ug/kg	350 U	360 U	350 U
218-01-9	Chrysene	90000	ug/kg	350 U	360 U	350 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	350 U	360 U	350 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	350 U	360 U	350 U

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

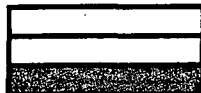
D - Diluted Sample Results

Legend

Confirmation Sample >

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502057

Confirmation/Documentation Sample Results for the Southwest Area - SW9

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	2 (continued)		3		4	
				RUSTIC-S6331C-D	RUSTIC-S6331D	Rustic-S6038A	Rustic-S6038B	FCS-OU3-0007-SW9-W1-48.0-7	
				47 to 49 ft. MSL	45 to 47 ft. MSL	51 to 53 ft. MSL	49 to 51 ft. MSL	46 ft. MSL	
				4 to 6 ft. BGS	6 to 8 ft. BGS	0 to 2 ft. BGS	2 to 4 ft. BGS	7 ft. BGS	
56-55-3	Benzo(a)anthracene	900	ug/kg	150 J	360 U	40 J	350 U	67	U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	250 J	360 U	61 J	350 U	67	U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	94 J	360 U	390 U	350 U	67	U
50-32-8	Benzo(a)pyrene	660	ug/kg	170 J	360 U	45 J	350 U	67	U
218-01-9	Chrysene	90000	ug/kg	130 J	360 U	43 J	350 U	67	U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	370 U	360 U	390 U	350 U	67	U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	90 J	360 U	390 U	350 U	67	U

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS
56-55-3	Benzo(a)anthracene	900	ug/kg
205-99-2	Benzo(b)fluoranthene	900	ug/kg
207-08-9	Benzo(k)fluoranthene	9000	ug/kg
50-32-8	Benzo(a)pyrene	660	ug/kg
218-01-9	Chrysene	90000	ug/kg
53-70-3	Dibenz(a,h)anthracene	660	ug/kg
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

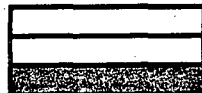
D - Diluted Sample Results

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502058

Confirmation/Documentation Sample Results for the Southwest Area - SW10

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	1			2	
				RUSTIC-S6382A	RUSTIC-S6382B	RUSTIC-S6382C	RUSTIC-S6572A	RUSTIC-S6572B
				51 to 52 ft. MSL	49 to 51 ft. MSL	47 to 49 ft. MSL	51 to 53 ft. MSL	49 to 51 ft. MSL
				1 to 2 ft. BGS	2 to 4 ft. BGS	4 to 6 ft. BGS	0 to 2 ft. BGS	2 to 4 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	390 U	380 U	370 U	270 J	400 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	390 U	380 U	38 J	410	400 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	390 U	380 U	370 U	180 J	400 U
50-32-8	Benzo(a)pyrene	660	ug/kg	390 U	380 U	370 U	260 J	400 U
218-01-9	Chrysene	90000	ug/kg	390 U	380 U	52 J	360 J	400 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	390 U	380 U	370 U	400 U	400 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	390 U	380 U	370 U	400 U	400 U

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	1	2
				RUSTIC-S6383D	RUSTIC-S6314D
				45 to 47 ft. MSL	45 to 47 ft. MSL
				6 to 8 ft. BGS	6 to 8 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	350 U	360 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	350 U	360 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	350 U	360 U
50-32-8	Benzo(a)pyrene	660	ug/kg	350 U	360 U
218-01-9	Chrysene	90000	ug/kg	350 U	360 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	350 U	360 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	350 U	360 U

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

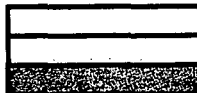
D - Diluted Sample Results

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502059

Confirmation/Documentation Sample Results for the Southwest Area - SW10

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	2 (continued)		3			
				RUSTIC-S6572C	RUSTIC-S6572C-D	RUSTIC-S6573A	RUSTIC-S6573B	RUSTIC-S6573C	
				47 to 49 ft. MSL	47 to 49 ft. MSL	51 to 53 ft. MSL	49 to 51 ft. MSL	47 to 49 ft. MSL	
				4 to 6 ft. BGS	4 to 6 ft. BGS	0 to 2 ft. BGS	2 to 4 ft. BGS	4 to 6 ft. BGS	
56-55-3	Benzo(a)anthracene	900	ug/kg	58 J	45 J	360 U	400 U	370 U	
205-99-2	Benzo(b)fluoranthene	900	ug/kg	98 J	78 J	120 J	400 U	45 J	
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	36 J	380 U	360 U	400 U	370 U	
50-32-8	Benzo(a)pyrene	660	ug/kg	380 U	380 U	360 U	400 U	370 U	
218-01-9	Chrysene	90000	ug/kg	88 J	70 J	360 U	400 U	370 U	
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	380 U	380 U	360 U	400 U	370 U	
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	380 U	380 U	360 U	400 U	370 U	

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS
56-55-3	Benzo(a)anthracene	900	ug/kg
205-99-2	Benzo(b)fluoranthene	900	ug/kg
207-08-9	Benzo(k)fluoranthene	9000	ug/kg
50-32-8	Benzo(a)pyrene	660	ug/kg
218-01-9	Chrysene	90000	ug/kg
53-70-3	Dibenz(a,h)anthracene	660	ug/kg
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

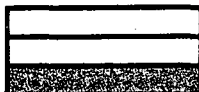
D - Diluted Sample Results

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502060

Confirmation/Documentation Sample Results for the Southwest Area - SW10

SIDEWALL SAMPLES

				3 (continued)	
				RUSTIC-S6573C-D	
				47 to 49 ft. MSL	
				4 to 6 ft. BGS	
CAS#	COMPOUND	ACG CRITERIA	UNITS		
56-55-3	Benzo(a)anthracene	900	ug/kg	360	U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	48	J
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	360	U
50-32-8	Benzo(a)pyrene	660	ug/kg	360	U
218-01-9	Chrysene	90000	ug/kg	59	J
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	360	U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	360	U

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS
56-55-3	Benzo(a)anthracene	900	ug/kg
205-99-2	Benzo(b)fluoranthene	900	ug/kg
207-08-9	Benzo(k)fluoranthene	9000	ug/kg
50-32-8	Benzo(a)pyrene	660	ug/kg
218-01-9	Chrysene	90000	ug/kg
53-70-3	Dibenz(a,h)anthracene	660	ug/kg
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

D - Diluted Sample Results

Legend

Confirmation Sample >

Documentation Sample below Cleanup Goals >

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502061

Confirmation/Documentation Sample Results for the Southwest Area - SW11

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	1				
				RUSTIC-S6376A	RUSTIC-S6376B	RUSTIC-S6376C	RUSTIC-S6376D	RUSTIC-S6376E
				50.5 to 51.5 ft. MSL	48.5 to 50.5 ft. MSL	46.5 to 48.5 ft. MSL	44.5 to 46.5 ft. MSL	42.5 to 44.5 ft. MSL
				1 to 2 ft. BGS	2 to 4 ft. BGS	4 to 6 ft. BGS	6 to 8 ft. BGS	8 to 10 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	44 J	380 U	370 U	530 U	410 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	43 J	380 U	370 U	530 U	410 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	380 U	380 U	370 U	530 U	410 U
50-32-8	Benzo(a)pyrene	660	ug/kg	380 U	380 U	370 U	530 U	410 U
218-01-9	Chrysene	90000	ug/kg	380 U	380 U	370 U	530 U	410 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	380 U	380 U	370 U	530 U	410 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	380 U	380 U	370 U	530 U	410 U

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	1	2	3	4	5
				RUSTIC-S6320F	RUSTIC-S207C	RUSTIC-S6319F	RUSTIC-S6311F	RUSTIC-S6312F
				40.5 to 42.5 ft. MSL	40.5 to 42.5 ft. MSL	40.5 to 42.5 ft. MSL	40.5 to 42.5 ft. MSL	40.5 to 42.5 ft. MSL
				10 to 12 ft. BGS	10 to 12 ft. BGS	10 to 12 ft. BGS	10 to 12 ft. BGS	10 to 12 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	360 U	350 U	350 U	350 U	360 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	360 U	350 U	350 U	350 U	360 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	360 U	350 U	350 U	350 U	360 U
50-32-8	Benzo(a)pyrene	660	ug/kg	360 U	350 U	350 U	350 U	360 U
218-01-9	Chrysene	90000	ug/kg	360 U	350 U	350 U	350 U	360 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	360 U	350 U	350 U	350 U	360 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	360 U	350 U	350 U	350 U	360 U

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

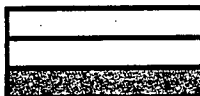
D - Diluted Sample Results

Legend

Confirmation Sample >

Documentation Sample below Cleanup Goals >

Documentation Sample above Cleanup Goals >



502062

Confirmation/Documentation Sample Results for the Southwest Area - SW11

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	1 (continued)	2				
				RUSTIC-S6376E-D	RUSTIC-S6377A	RUSTIC-S6377B	RUSTIC-S6377C	RUSTIC-S6377D	
				42.5 to 44.5 ft. MSL	50.5 to 51.3 ft. MSL	48.5 to 50.5 ft. MSL	46.5 to 48.5 ft. MSL	44.5 to 46.5 ft. MSL	
				8 to 10 ft. BGS	1.2 to 2 ft. BGS	2 to 4 ft. BGS	4 to 6 ft. BGS	6 to 8 ft. BGS	
56-55-3	Benzo(a)anthracene	900	ug/kg	350 U	210 J	380 U	60 J	360 U	
205-99-2	Benzo(b)fluoranthene	900	ug/kg	350 U	300 J	380 U	48 J	360 U	
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	350 U	140 J	380 U	30 J	360 U	
50-32-8	Benzo(a)pyrene	660	ug/kg	350 U	180 J	380 U	37 J	360 U	
218-01-9	Chrysene	90000	ug/kg	350 U	250 J	380 U	58 J	360 U	
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	350 U	39 J	380 U	340 U	360 U	
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	350 U	100 J	380 U	340 U	380 U	

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	6
				RUSTIC-S6313F
				40.5 to 42.5 ft. MSL
				10 to 12 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	360 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	360 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	360 U
50-32-8	Benzo(a)pyrene	660	ug/kg	360 U
218-01-9	Chrysene	90000	ug/kg	360 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	360 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	360 U

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

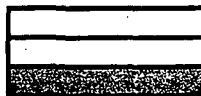
D - Diluted Sample Results

Legend

Confirmation Sample >

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502063

Confirmation/Documentation Sample Results for the Southwest Area - SW11

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	2 (continued)		3		
				RUSTIC-S6377E	RUSTIC-S6377E-D	RUSTIC-S6373B	RUSTIC-S6373C	RUSTIC-S6373D
				42.5 to 44.5 ft. MSL	42.5 to 44.5 ft. MSL	48.5 to 50.5 ft. MSL	46.5 to 48.5 ft. MSL	44.5 to 46.5 ft. MSL
				8 to 10 ft. BGS	8 to 10 ft. BGS	2 to 4 ft. BGS	4 to 6 ft. BGS	6 to 8 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	350 U	84 J	340 J	350 U	360 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	350 U	59 J	320 J	350 U	360 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	350 U	360 U	160 J	350 U	360 U
50-32-8	Benzo(a)pyrene	660	ug/kg	350 U	360 U	240 J	350 U	360 U
218-01-9	Chrysene	90000	ug/kg	350 U	64 J	380	350 U	360 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	350 U	360 U	370 U	350 U	360 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	350 U	360 U	110 J	350 U	360 U

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS
56-55-3	Benzo(a)anthracene	900	ug/kg
205-99-2	Benzo(b)fluoranthene	900	ug/kg
207-08-9	Benzo(k)fluoranthene	9000	ug/kg
50-32-8	Benzo(a)pyrene	660	ug/kg
218-01-9	Chrysene	90000	ug/kg
53-70-3	Dibenz(a,h)anthracene	660	ug/kg
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

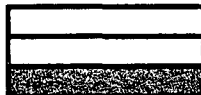
D - Diluted Sample Results

Legend

Confirmation Sample >

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502064

Confirmation/Documentation Sample Results for the Southwest Area - SW11

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	3 (continued)		4	
				RUSTIC-S6373E	RUSTIC-S6373E-D	RUSTIC-S6374C	RUSTIC-S6374D
				42.5 to 44.5 ft. MSL	42.5 to 44.5 ft. MSL	46.5 to 48.5 ft. MSL	44.5 to 46.5 ft. MSL
				8 to 10 ft. BGS	8 to 10 ft. BGS	4 to 6 ft. BGS	6 to 8 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	340 U	350 U	270 J	370 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	340 U	350 U	890	370 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	340 U	350 U	400	370 U
50-32-8	Benzo(a)pyrene	660	ug/kg	340 U	350 U	520	370 U
218-01-9	Chrysene	90000	ug/kg	340 U	350 U	540	370 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	340 U	350 U	120 J	370 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	340 U	350 U	320 J	370 U

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS
56-55-3	Benzo(a)anthracene	900	ug/kg
205-99-2	Benzo(b)fluoranthene	900	ug/kg
207-08-9	Benzo(k)fluoranthene	9000	ug/kg
50-32-8	Benzo(a)pyrene	660	ug/kg
218-01-9	Chrysene	90000	ug/kg
53-70-3	Dibenz(a,h)anthracene	660	ug/kg
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

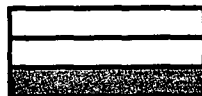
D - Diluted Sample Results

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Confirmation Sample >

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502065

Confirmation/Documentation Sample Results for the Southwest Area - SW11

SIDEWALL SAMPLES

				4 (continued)		5							
CAS#	COMPOUND	ACG CRITERIA	UNITS	RUSTIC-S6374E-D		RUSTIC-S6375A		RUSTIC-S6375B		RUSTIC-S6375C		RUSTIC-S6375D	
				42.5 to 44.5 ft. MSL		50.5 to 51 ft. MSL		48.5 to 50.5 ft. MSL		46.5 to 48.5 ft. MSL		44.5 to 46.5 ft. MSL	
				8 to 10 ft. BGS		1.5 to 2 ft. BGS		2 to 4 ft. BGS		4 to 6 ft. BGS		6 to 8 ft. BGS	
56-55-3	Benzo(a)anthracene	900	ug/kg	350	U	290	J	370	U	51	J	350	U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	350	U	400		370	U	69	J	350	U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	350	U	140	J	370	U	28	J	350	U
50-32-8	Benzo(a)pyrene	660	ug/kg	350	U	210	J	370	U	42	J	350	U
218-01-9	Chrysene	90000	ug/kg	350	U	400		370	U	74	J	350	U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	350	U	44	J	370	U	360	U	350	U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	350	U	140	J	370	U	360	U	350	U

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS
56-55-3	Benzo(a)anthracene	900	ug/kg
205-99-2	Benzo(b)fluoranthene	900	ug/kg
207-08-9	Benzo(k)fluoranthene	9000	ug/kg
50-32-8	Benzo(a)pyrene	660	ug/kg
218-01-9	Chrysene	90000	ug/kg
53-70-3	Dibenz(a,h)anthracene	660	ug/kg
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

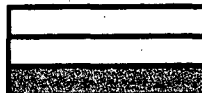
D - Diluted Sample Results

Legend

Confirmation Sample >

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Documentation Sample above Cleanup Goals >



502066

Confirmation/Documentation Sample Results for the Southwest Area - SW11

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	5 (continued)		6	
				RUSTIC-S6375E	RUSTIC-S6375E-D	RUSTIC-S6314D	RUSTIC-S6314E
				42.5 to 44.5 ft. MSL	42.5 to 44.5 ft. MSL	44.5 to 46.5 ft. MSL	42.5 to 44.5 ft. MSL
				8 to 10 ft. BGS	8 to 10 ft. BGS	8 to 8 ft. BGS	8 to 10 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	360 U	36 J	360 U	150 J
205-99-2	Benzo(b)fluoranthene	900	ug/kg	360 U	39 J	360 U	150 J
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	360 U	350 U	360 U	65 J
50-32-8	Benzo(a)pyrene	660	ug/kg	360 U	350 U	360 U	100 J
218-01-9	Chrysene	90000	ug/kg	360 U	41 J	360 U	140 J
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	360 U	350 U	360 U	350 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	360 U	350 U	360 U	56 J

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS
56-55-3	Benzo(a)anthracene	900	ug/kg
205-99-2	Benzo(b)fluoranthene	900	ug/kg
207-08-9	Benzo(k)fluoranthene	9000	ug/kg
50-32-8	Benzo(a)pyrene	660	ug/kg
218-01-9	Chrysene	90000	ug/kg
53-70-3	Dibenz(a,h)anthracene	660	ug/kg
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

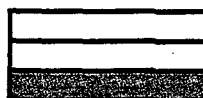
D - Diluted Sample Results

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Confirmation Sample >

Documentation Sample below Cleanup Goals >

Documentation Sample above Cleanup Goals >



502067

Confirmation/Documentation Sample Results for the Southwest Area - SW12

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	1	2	3
				RUSTIC-S6378A	RUSTIC-S6379A	RUSTIC-S6377A
				50.5 to 51.5 ft. MSL	50.5 to 51.5 ft. MSL	50.5 to 51.3 ft. MSL
				1 to 2 ft. BGS	1 to 2 ft. BGS	1.2 to 2 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	51 J	46 J	210 J
205-99-2	Benzo(b)fluoranthene	900	ug/kg	44 J	55 J	300 J
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	380 U	390 U	140 J
50-32-8	Benzo(a)pyrene	660	ug/kg	380 U	390 U	180 J
218-01-9	Chrysene	90000	ug/kg	380 U	390 U	250 J
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	380 U	390 U	39 J
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	380 U	390 U	100 J

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	1	2
				RUSTIC-S6378B	RUSTIC-S6379B
				48.5 to 50.5 ft. MSL	48.5 to 50.5 ft. MSL
				2 to 4 ft. BGS	2 to 4 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	380 U	49 J
205-99-2	Benzo(b)fluoranthene	900	ug/kg	380 U	57 J
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	380 U	380 U
50-32-8	Benzo(a)pyrene	660	ug/kg	380 U	380 U
218-01-9	Chrysene	90000	ug/kg	380 U	380 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	380 U	380 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	380 U	380 U

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

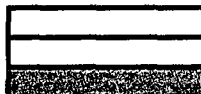
D - Diluted Sample Results

Legend

Confirmation Sample >

Documentation Sample below Cleanup Goals >

Documentation Sample above Cleanup Goals >



502068

Confirmation/Documentation Sample Results for the Southwest Area - SW13

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	1			2	
				Rustic-S213B	Rustic-S213C	Rustic-S213C-D	RUSTIC-S6323A	RUSTIC-S6323B
				48 to 50 ft. MSL	40 to 42 ft. MSL	40 to 42 ft. MSL	50 to 51.5 ft. MSL	48 to 50 ft. MSL
				2 to 4 ft. BGS	10 to 12 ft. BGS	10 to 12 ft. BGS	0.5 to 2 ft. BGS	2 to 4 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	70 J	360 UJ	360 UJ	130 J	380 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	50 J	360 UJ	360 UJ	300 J	380 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	41 J	360 UJ	360 UJ	160 J	380 U
50-32-8	Benzo(a)pyrene	660	ug/kg	370 UJ	360 UJ	360 UJ	220 J	380 U
218-01-9	Chrysene	90000	ug/kg	72 J	360 U	360 U	160 J	380 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	370 U	360 U	360 U	380 U	380 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	370 U	360 U	360 U	59 J	380 U

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	1	2	3	4
				RUSTIC-S6329H	RUSTIC-S6304F	RUSTIC-S6305F	RUSTIC-S6305F-D
				36 to 38 ft. MSL	36 to 38 ft. MSL	36 to 38 ft. MSL	36 to 38 ft. MSL
				14 to 16 ft. BGS	14 to 16 ft. BGS	14 to 16 ft. BGS	14 to 16 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	340 U	360 U	54000 D	54000 D
205-99-2	Benzo(b)fluoranthene	900	ug/kg	340 U	360 U	32000 D	41000 D
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	340 U	360 U	16000	22000
50-32-8	Benzo(a)pyrene	660	ug/kg	340 U	360 U	22000	27000 D
218-01-9	Chrysene	90000	ug/kg	340 U	360 U	44000 D	54000 D
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	340 U	360 U	2500	2800
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	340 U	360 U		7500

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

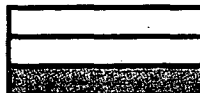
D - Diluted Sample Results

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502069

Confirmation/Documentation Sample Results for the Southwest Area - SW13

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	3				
				RUSTIC-S6318A	RUSTIC-S6318B	RUSTIC-S6318C	RUSTIC-S6318D	RUSTIC-S6318E
				50 to 51.1 ft. MSL	48 to 50 ft. MSL	46 to 48 ft. MSL	44 to 46 ft. MSL	42 to 44 ft. MSL
				0.9 to 2 ft. BGS	2 to 4 ft. BGS	4 to 6 ft. BGS	6 to 8 ft. BGS	8 to 10 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	140 J	360 U	350 U	350 U	350 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	270 J	360 U	350 U	350 U	350 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	130 J	360 U	350 U	350 U	350 U
50-32-8	Benzo(a)pyrene	660	ug/kg	160 J	360 U	350 U	350 U	350 U
218-01-9	Chrysene	90000	ug/kg	170 J	360 U	350 U	350 U	350 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	370 U	360 U	350 U	350 U	350 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	44 J	360 U	350 U	350 U	350 U

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	5		6		7
				RUSTIC-S6034G	RUSTIC-S6034H	RUSTIC-S6040G	RUSTIC-S6040G-D	RUSTIC-S6301H
				38 to 40 ft. MSL	36 to 38 ft. MSL	36 to 38 ft. MSL	36 to 38 ft. MSL	38 to 38 ft. MSL
				12 to 14 ft. BGS	14 to 16 ft. BGS	14 to 16 ft. BGS	14 to 16 ft. BGS	14 to 16 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	240 J	2400 J	44000 J	52000 J	360 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	160 J	1700 J	20000 J	34000 J	360 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	44 J	660 J	12000 J	14000 J	360 U
50-32-8	Benzo(a)pyrene	660	ug/kg	97 J	940 J	19000 J	22000 J	360 U
218-01-9	Chrysene	90000	ug/kg	130 J	7800 J	37000 J	43000 J	360 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	360 U	1800 U	1800 J	2300 J	360 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	360 U	U	U	U	360 U

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

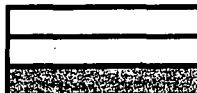
D - Diluted Sample Results

Legend

Confirmation Sample >

Documentation Sample below Cleanup Goals >

Documentation Sample above Cleanup Goals >



502070

Confirmation/Documentation Sample Results for the Southwest Area - SW13

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	3 (continued)		4		5
				RUSTIC-S6318F	RUSTIC-S6318G	RUSTIC-S6319F	RUSTIC-S6319G	RUSTIC-S6311F
				40 to 42 ft. MSL	38 to 40 ft. MSL	40 to 42 ft. MSL	38 to 40 ft. MSL	40 to 42 ft. MSL
				10 to 12 ft. BGS	12 to 14 ft. BGS	10 to 12 ft. BGS	12 to 14 ft. BGS	10 to 12 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	340 U	360 U	350 U	110 J	350 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	340 U	360 U	350 U	220 J	350 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	340 U	360 U	350 U	130 J	350 U
50-32-8	Benzo(a)pyrene	660	ug/kg	340 U	360 U	350 U	130 J	350 U
218-01-9	Chrysene	90000	ug/kg	340 U	360 U	350 U	180 J	350 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	340 U	360 U	350 U	360 U	350 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	340 U	360 U	350 U	360 U	350 U

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	8	9	10		11
				RUSTIC-S6033G	RUSTIC-S6124G	RUSTIC-S6042G	RUSTIC-S6042G-D	RUSTIC-S6334H
				36 to 38 ft. MSL	36 to 38 ft. MSL	36 to 38 ft. MSL	36 to 38 ft. MSL	36 to 38 ft. MSL
				14 to 16 ft. BGS	14 to 16 ft. BGS	14 to 16 ft. BGS	14 to 16 ft. BGS	14 to 16 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	120000 DJ	87000 D	340 U	360 U	360 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	57000	4000 DJ	340 U	360 U	360 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	34000	21000	340 U	360 U	360 U
50-32-8	Benzo(a)pyrene	660	ug/kg	44000	24000 DJ	340 U	360 U	360 U
218-01-9	Chrysene	90000	ug/kg	130000 DJ	51000 DJ	340 U	360 U	360 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	3300 J	5700	340 U	360 U	360 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	37000	3000	340 U	360 U	360 U

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

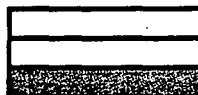
D - Diluted Sample Results

Legend

Confirmation Sample >

Documentation Sample below Cleanup Goals >

Documentation Sample above Cleanup Goals >



502071

Confirmation/Documentation Sample Results for the Southwest Area - SW13

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	5 (continued)		6		7
				RUSTIC-S6311G	RUSTIC-S6311G-D	RUSTIC-S6312F	RUSTIC-S6312G	RUSTIC-S6313F
				38 to 40 ft. MSL	38 to 40 ft. MSL	40 to 42 ft. MSL	38 to 40 ft. MSL	40 to 42 ft. MSL
				12 to 14 ft. BGS	12 to 14 ft. BGS	10 to 12 ft. BGS	12 to 14 ft. BGS	10 to 12 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	350 U	350 U	360 U	360 U	360 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	350 U	350 U	360 U	360 U	360 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	350 U	350 U	360 U	360 U	360 U
50-32-8	Benzo(a)pyrene	660	ug/kg	350 U	350 U	360 U	360 U	360 U
218-01-9	Chrysene	90000	ug/kg	350 U	350 U	360 U	360 U	360 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	350 U	350 U	360 U	360 U	360 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	350 U	350 U	360 U	360 U	360 U

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	12		13		14
				RUSTIC-S6300H	RUSTIC-S6300H-D	RUSTIC-S6032G	RUSTIC-S6032G-D	RUSTIC-S6044G
				36 to 38 ft. MSL	36 to 38 ft. MSL	36 to 38 ft. MSL	36 to 38 ft. MSL	36 to 38 ft. MSL
				14 to 16 ft. BGS	14 to 16 ft. BGS	14 to 16 ft. BGS	14 to 16 ft. BGS	14 to 16 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	14000	13000	360 U	350 U	370 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	17000	16000	360 U	350 U	370 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	7400	7300	360 U	350 U	370 U
50-32-8	Benzo(a)pyrene	660	ug/kg	12000	10000	360 U	350 U	370 U
218-01-9	Chrysene	90000	ug/kg	15000	12000	360 U	350 U	370 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	1400 J	1400 J	360 U	350 U	370 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	1400 J	1400 J	360 U	350 U	370 U

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

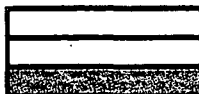
D - Diluted Sample Results

Legend

Confirmation Sample >

Documentation Sample below Cleanup Goals >

Documentation Sample above Cleanup Goals >



502072

Confirmation/Documentation Sample Results for the Southwest Area - SW13

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	7 (continued)	8				
				RUSTIC-S6313G	RUSTIC-S6314D	RUSTIC-S6314E	RUSTIC-S6314F	RUSTIC-S6314G	
				38 to 40 ft. MSL	44 to 46 ft. MSL	42 to 44 ft. MSL	40 to 42 ft. MSL	38 to 40 ft. MSL	
				12 to 14 ft. BGS	6 to 8 ft. BGS	8 to 10 ft. BGS	10 to 12 ft. BGS	12 to 14 ft. BGS	
56-55-3	Benzo(a)anthracene	900	ug/kg	120 J	360 U	150 J	350 U	180 J	
205-99-2	Benzo(b)fluoranthene	900	ug/kg	110 J	360 U	150 J	350 U	280 J	
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	50 J	360 U	65 J	350 U	120 J	
50-32-8	Benzo(a)pyrene	660	ug/kg	64 J	360 U	100 J	350 U	180 J	
218-01-9	Chrysene	90000	ug/kg	110 J	360 U	140 J	350 U	180 J	
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	350 U	360 U	350 U	350 U	350 U	
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	36 J	360 U	56 J	350 U	66 J	

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	15	16		17	18
				RUSTIC-S6043G	RUSTIC-S6310H	RUSTIC-S6310H-D	RUSTIC-S6370H	RUSTIC-S6368H
				36 to 38 ft. MSL	36 to 38 ft. MSL	36 to 38 ft. MSL	36 to 38 ft. MSL	36 to 38 ft. MSL
				14 to 16 ft. BGS	14 to 16 ft. BGS	14 to 16 ft. BGS	14 to 16 ft. BGS	14 to 16 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	57000 D	270000 D	250000 D	350 U	360 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	52000 D	240000 D	230000 D	350 U	360 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	19000 D	120000 D	110000 D	350 U	360 U
50-32-8	Benzo(a)pyrene	660	ug/kg	21000 D	170000 D	160000 D	350 U	360 U
218-01-9	Chrysene	90000	ug/kg	54000 D	300000 D	280000 D	350 U	360 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	3400 J	32000 D	10000 D	350 U	360 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	36000 D	360000 D	360000 D	350 U	360 U

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

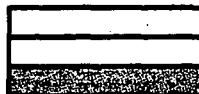
D - Diluted Sample Results

Legend

Confirmation Sample >

Documentation Sample below Cleanup Goals >

Documentation Sample above Cleanup Goals >



502073

Confirmation/Documentation Sample Results for the Southwest Area - SW13

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	9			10		
				RUSTIC-S6332E	RUSTIC-S6332F	RUSTIC-S6332G	RUSTIC-S6331B	RUSTIC-S6331C	
				42 to 44 ft. MSL	40 to 42 ft. MSL	38 to 40 ft. MSL	48 to 50 ft. MSL	46 to 48 ft. MSL	
				8 to 10 ft. BGS	10 to 12 ft. BGS	12 to 14 ft. BGS	2 to 4 ft. BGS	4 to 6 ft. BGS	
56-55-3	Benzo(a)anthracene	900	ug/kg	350 U	350 U	330 J	390 U	280 J	
205-99-2	Benzo(b)fluoranthene	900	ug/kg	36 J	350 U	590	390 U	490	
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	350 U	350 U	250 J	390 U	200 J	
50-32-8	Benzo(a)pyrene	660	ug/kg	350 U	350 U	390	390 U	340 J	
218-01-9	Chrysene	90000	ug/kg	350 U	350 U	410	390 U	250 J	
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	350 U	350 U	41 J	390 U	380 U	
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	350 U	350 U	120 J	390 U	150 J	

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	19	20	21	22	23
				RUSTIC-S6363H	RUSTIC-S6362H	RUSTIC-S6307H	RUSTIC-S6308H	RUSTIC-S6309H
				36 to 38 ft. MSL	36 to 38 ft. MSL	36 to 38 ft. MSL	36 to 38 ft. MSL	36 to 38 ft. MSL
				14 to 16 ft. BGS	14 to 16 ft. BGS	14 to 16 ft. BGS	14 to 16 ft. BGS	14 to 16 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	350 U	350 U	360 U	360 U	350 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	350 U	350 U	360 U	360 U	350 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	350 U	350 U	360 U	360 U	350 U
50-32-8	Benzo(a)pyrene	660	ug/kg	350 U	350 U	360 U	360 U	350 U
218-01-9	Chrysene	90000	ug/kg	350 U	350 U	360 U	360 U	350 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	350 U	350 U	360 U	360 U	350 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	350 U	350 U	360 U	360 U	350 U

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

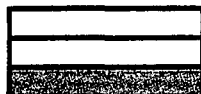
D - Diluted Sample Results

Legend

Confirmation Sample >

Documentation Sample below Cleanup Goals >

Documentation Sample above Cleanup Goals >



502074

Confirmation/Documentation Sample Results for the Southwest Area - SW13

SIDEWALL SAMPLES

				10 (continued)				
CAS#	COMPOUND	ACG CRITERIA	UNITS	RUSTIC-S6331C-D	RUSTIC-S6331D	RUSTIC-S6331E	RUSTIC-S6331F	RUSTIC-S6331G
				46 to 48 ft. MSL	44 to 46 ft. MSL	42 to 44 ft. MSL	40 to 42 ft. MSL	38 to 40 ft. MSL
				4 to 6 ft. BGS	6 to 8 ft. BGS	8 to 10 ft. BGS	10 to 12 ft. BGS	12 to 14 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	150 J	360 U	360 U	340 U	350 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	250 J	360 U	360 U	340 U	350 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	94 J	360 U	360 U	340 U	350 U
50-32-8	Benzo(a)pyrene	660	ug/kg	170 J	360 U	360 U	340 U	350 U
218-01-9	Chrysene	90000	ug/kg	130 J	360 U	360 U	340 U	350 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	370 U	360 U	360 U	340 U	350 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	90 J	360 U	360 U	340 U	350 U

BOTTOM SAMPLES

				24	25	26	27	28
CAS#	COMPOUND	ACG CRITERIA	UNITS	RUSTIC-S6372H	RUSTIC-S6367H	RUSTIC-S6364H	RUSTIC-S6315H	RUSTIC-S6316H
				36 to 38 ft. MSL	36 to 38 ft. MSL	36 to 38 ft. MSL	36 to 38 ft. MSL	36 to 38 ft. MSL
				14 to 16 ft. BGS	14 to 16 ft. BGS	14 to 16 ft. BGS	14 to 16 ft. BGS	14 to 16 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	260000	80000 D	320000 D	350 U	360 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	200000	81000 D	280000	350 U	360 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	130000	28000 D	100000	350 U	360 U
50-32-8	Benzo(a)pyrene	660	ug/kg	150000	46000 D	160000	350 U	360 U
218-01-9	Chrysene	90000	ug/kg	190000	49000 D	260000	350 U	360 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	41000 J	4200 DJ	12500 J	350 U	360 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	130000	13000 D	110000	350 U	360 U

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

D - Diluted Sample Results

Legend

Confirmation Sample >

Documentation Sample below Cleanup Goals >

Documentation Sample above Cleanup Goals >



502075

Confirmation/Documentation Sample Results for the Southwest Area - SW13

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	10 (continued)	11	12
				RUSTIC-S6331G	Rustic-S6038A	Rustic-S6038B
				38 to 40 ft. MSL	50 to 52 ft. MSL	48 to 50 ft. MSL
				12 to 14 ft. BGS	0 to 2 ft. BGS	2 to 4 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	350 U	40 J	350 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	350 U	61 J	350 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	350 U	390 U	350 U
50-32-8	Benzo(a)pyrene	660	ug/kg	350 U	45 J	350 U
218-01-9	Chrysene	90000	ug/kg	350 U	43 J	350 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	350 U	390 U	350 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	350 U	390 U	350 U

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	29	30	31	32	33
				RUSTIC-S6319H	RUSTIC-S6311H	RUSTIC-S6312H	RUSTIC-S6313H	RUSTIC-S6332H
				36 to 38 ft. MSL	36 to 38 ft. MSL	36 to 38 ft. MSL	36 to 38 ft. MSL	36 to 38 ft. MSL
				14 to 16 ft. BGS	14 to 16 ft. BGS	14 to 16 ft. BGS	14 to 16 ft. BGS	14 to 16 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	350 U	340 U	350 U	350 U	350 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	72 J	340 U	350 U	350 U	350 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	41 J	340 U	350 U	350 U	350 U
50-32-8	Benzo(a)pyrene	660	ug/kg	45 J	340 U	350 U	350 U	350 U
218-01-9	Chrysene	90000	ug/kg	68 J	340 U	350 U	350 U	350 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	350 U	340 U	350 U	350 U	350 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	350 U	340 U	350 U	350 U	350 U

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

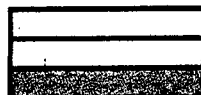
D - Diluted Sample Results

Legend

Confirmation Sample >

Documentation Sample below Cleanup Goals >

Documentation Sample above Cleanup Goals >



502076

Confirmation/Documentation Sample Results for the Southwest Area - SW13

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	12 (continued)			
				RUSTIC-S6330C	RUSTIC-S6330D	RUSTIC-S6330D-D	RUSTIC-S6330E
				42 to 44 ft. MSL	40 to 42 ft. MSL	40 to 42 ft. MSL	38 to 40 ft. MSL
				8 to 10 ft. BGS	10 to 12 ft. BGS	10 to 12 ft. BGS	12 to 14 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	350 U	340 U	350 U	350 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	350 U	340 U	350 U	39 J
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	350 U	340 U	350 U	350 U
50-32-8	Benzo(a)pyrene	660	ug/kg	350 U	340 U	350 U	350 U
218-01-9	Chrysene	90000	ug/kg	350 U	340 U	350 U	350 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	350 U	340 U	350 U	350 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	350 U	340 U	350 U	350 U

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	34	35		36	37
				RUSTIC-S6331H	RUSTIC-S6328H	RUSTIC-S6328H-D	RUSTIC-S6303F	RUSTIC-S6302F
				36 to 38 ft. MSL	36 to 38 ft. MSL	36 to 38 ft. MSL	36 to 38 ft. MSL	36 to 38 ft. MSL
				14 to 16 ft. BGS	14 to 16 ft. BGS	14 to 16 ft. BGS	14 to 16 ft. BGS	14 to 16 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	350 U	360 U	340 U	350 U	360 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	350 U	360 U	340 U	350 U	360 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	350 U	360 U	340 U	350 U	360 U
50-32-8	Benzo(a)pyrene	660	ug/kg	350 U	360 U	340 U	350 U	360 U
218-01-9	Chrysene	90000	ug/kg	350 U	360 U	340 U	350 U	360 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	350 U	360 U	340 U	350 U	360 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	350 U	360 U	340 U	350 U	360 U

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

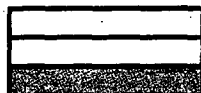
D - Diluted Sample Results

Legend

Confirmation Sample >

Documentation Sample below Cleanup Goals >

Documentation Sample above Cleanup Goals >



502077

Confirmation/Documentation Sample Results for the Southwest Area - SW13

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	13			14	
				Rustic-S210B	Rustic-S210B-D	Rustic-S210C	RUSTIC-S6324A	RUSTIC-S6324B
				48 to 50 ft. MSL	48 to 50 ft. MSL	40 to 42 ft. MSL	46 to 48 ft. MSL	44 to 46 ft. MSL
				2 to 4 ft. BGS	2 to 4 ft. BGS	10 to 12 ft. BGS	4 to 6 ft. BGS	6 to 8 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	370 UJ	380 U	50 J	360 U	350 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	370 UJ	380 U	350 UJ	360 U	350 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	370 UJ	380 U	71 J	360 U	350 U
50-32-8	Benzo(a)pyrene	660	ug/kg	370 UJ	380 U	46 J	360 U	350 U
218-01-9	Chrysene	90000	ug/kg	370 U	380 U	61 J	360 U	350 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	370 U	380 U	350 U	360 U	350 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	370 U	380 U	350 U	360 U	350 U

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	38	39	40	41	42
				RUSTIC-S6335H	RUSTIC-S6369H	RUSTIC-S6385H	FCS-OU3-0076-SWA2-F1-31.0-7	FCS-OU3-0077-SWA2-F2-34.5-7
				36 to 38 ft. MSL	36 to 38 ft. MSL	36 to 38 ft. MSL	31.0 ft. MSL	34.5 ft. MSL
				14 to 16 ft. BGS	14 to 16 ft. BGS	14 to 16 ft. BGS	22.0 ft. BGS	18.5 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	340 U	350 U	340 U	11200	775
205-99-2	Benzo(b)fluoranthene	900	ug/kg	340 U	350 U	340 U	3540	600
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	340 U	350 U	340 U	3540	301
50-32-8	Benzo(a)pyrene	660	ug/kg	340 U	350 U	340 U	3660	479
218-01-9	Chrysene	90000	ug/kg	340 U	350 U	340 U	9610	596
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	340 U	350 U	340 U	1080	82
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	340 U	350 U	340 U		171

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

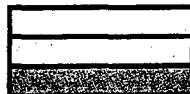
D - Diluted Sample Results

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502078

Confirmation/Documentation Sample Results for the Southwest Area - SW13

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	14 (continued)				15
				RUSTIC-S6324B-D	RUSTIC-S6324C	RUSTIC-S6324D	RUSTIC-S6324E	RUSTIC-S6326A
				44 to 46 ft. MSL	42 to 44 ft. MSL	40 to 42 ft. MSL	38 to 40 ft. MSL	50 to 51.5 ft. MSL
				6 to 8 ft. BGS	8 to 10 ft. BGS	10 to 12 ft. BGS	12 to 14 ft. BGS	0.5 to 2 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	360 U	340 U	350 U	360 U	340 J
205-99-2	Benzo(b)fluoranthene	900	ug/kg	360 U	340 U	350 U	360 U	600
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	360 U	340 U	350 U	360 U	260 J
50-32-8	Benzo(a)pyrene	660	ug/kg	360 U	340 U	350 U	360 U	310 J
218-01-9	Chrysene	90000	ug/kg	360 U	340 U	350 U	360 U	450
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	360 U	340 U	350 U	360 U	380 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	360 U	340 U	350 U	360 U	91 J

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	43
				RUSTIC-S6301H
				36 to 38 ft. MSL
				14 to 16 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	360 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	360 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	360 U
50-32-8	Benzo(a)pyrene	660	ug/kg	360 U
218-01-9	Chrysene	90000	ug/kg	360 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	360 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	360 U

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

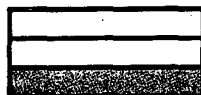
D - Diluted Sample Results

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502079

Confirmation/Documentation Sample Results for the Southwest Area - SW13

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	15 (continued)				
				RUSTIC-S6326B	RUSTIC-S6326C	RUSTIC-S6326D	RUSTIC-S6326D-D	RUSTIC-S6326E
				48 to 50 ft. MSL	48 to 48 ft. MSL	44 to 46 ft. MSL	44 to 46 ft. MSL	42 to 44 ft. MSL
				2 to 4 ft. BGS	4 to 6 ft. BGS	6 to 8 ft. BGS	6 to 8 ft. BGS	8 to 10 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	370 U	43 J	350 U	340 U	350 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	370 U	66 J	350 U	340 U	350 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	370 U	39 J	350 U	340 U	350 U
50-32-8	Benzo(a)pyrene	660	ug/kg	370 U	360 U	350 U	340 U	350 U
218-01-9	Chrysene	90000	ug/kg	370 U	54 J	350 U	340 U	350 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	370 U	360 U	350 U	340 U	350 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	370 U	360 U	350 U	340 U	350 U

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS
56-55-3	Benzo(a)anthracene	900	ug/kg
205-99-2	Benzo(b)fluoranthene	900	ug/kg
207-08-9	Benzo(k)fluoranthene	9000	ug/kg
50-32-8	Benzo(a)pyrene	660	ug/kg
218-01-9	Chrysene	90000	ug/kg
53-70-3	Dibenz(a,h)anthracene	660	ug/kg
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

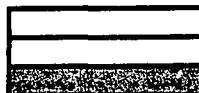
D - Diluted Sample Results

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502080

Confirmation/Documentation Sample Results for the Southwest Area - SW13

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	16	17				
				Rustic-S6028B	RUSTIC-S6328B	RUSTIC-S6328C	RUSTIC-S6328C-D	RUSTIC-S6328D	
				48 to 50 ft. MSL	48 to 50 ft. MSL	46 to 48 ft. MSL	46 to 48 ft. MSL	44 to 46 ft. MSL	
				2 to 4 ft. BGS	2 to 4 ft. BGS	4 to 6 ft. BGS	4 to 6 ft. BGS	8 to 8 ft. BGS	
56-55-3	Benzo(a)anthracene	900	ug/kg	390 U	380 U	370 U	360 U	370 U	
205-99-2	Benzo(b)fluoranthene	900	ug/kg	390 U	380 U	47 J	360 U	370 U	
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	390 U	380 U	370 U	360 U	370 U	
50-32-8	Benzo(a)pyrene	660	ug/kg	390 U	380 U	370 U	360 U	370 U	
218-01-9	Chrysene	90000	ug/kg	390 U	380 U	370 U	360 U	370 U	
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	390 U	380 U	370 U	360 U	370 U	
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	390 U	380 U	370 U	360 U	370 U	

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS
56-55-3	Benzo(a)anthracene	900	ug/kg
205-99-2	Benzo(b)fluoranthene	900	ug/kg
207-08-9	Benzo(k)fluoranthene	9000	ug/kg
50-32-8	Benzo(a)pyrene	660	ug/kg
218-01-9	Chrysene	90000	ug/kg
53-70-3	Dibenz(a,h)anthracene	660	ug/kg
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

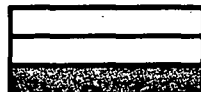
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502081

Confirmation/Documentation Sample Results for the Southwest Area - SW13

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	17 (continued)			18	
				RUSTIC-S6328E	RUSTIC-S6328F	RUSTIC-S6328G	RUSTIC-S6303B	RUSTIC-S6303C
				42 to 44 ft. MSL	40 to 42 ft. MSL	38 to 40 ft. MSL	44 to 46 ft. MSL	42 to 44 ft. MSL
				8 to 10 ft. BGS	10 to 12 ft. BGS	12 to 14 ft. BGS	6 to 8 ft. BGS	8 to 10 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	340 U	350 U	350 U	350 U	360
205-99-2	Benzo(b)fluoranthene	900	ug/kg	340 U	350 U	350 U	350 U	540
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	340 U	350 U	350 U	350 U	240 J
50-32-8	Benzo(a)pyrene	660	ug/kg	340 U	350 U	350 U	350 U	340 J
218-01-9	Chrysene	90000	ug/kg	340 U	350 U	350 U	350 U	420
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	340 U	350 U	350 U	350 U	39 J
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	340 U	350 U	350 U	350 U	120 J

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS
56-55-3	Benzo(a)anthracene	900	ug/kg
205-99-2	Benzo(b)fluoranthene	900	ug/kg
207-08-9	Benzo(k)fluoranthene	9000	ug/kg
50-32-8	Benzo(a)pyrene	660	ug/kg
218-01-9	Chrysene	90000	ug/kg
53-70-3	Dibenz(a,h)anthracene	660	ug/kg
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

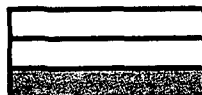
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502082

Confirmation/Documentation Sample Results for the Southwest Area - SW13

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	18 (continued)			19	
				RUSTIC-S6303D	RUSTIC-S6303D-D	RUSTIC-S6303E	RUSTIC-S6302C	RUSTIC-S6302C-D
				40 to 42 ft. MSL	40 to 42 ft. MSL	38 to 40 ft. MSL	42 to 44 ft. MSL	42 to 44 ft. MSL
				10 to 12 ft. BGS	10 to 12 ft. BGS	12 to 14 ft. BGS	8 to 10 ft. BGS	8 to 10 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	350 U	340 U	160 J	82 J	350 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	350 U	340 U	240 J	120 J	38 J
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	350 U	340 U	98 J	49 J	350 U
50-32-8	Benzo(a)pyrene	660	ug/kg	350 U	340 U	120 J	69 J	350 U
218-01-9	Chrysene	90000	ug/kg	350 U	340 U	200 J	73 J	350 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	350 U	340 U	360 U	360 U	350 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	350 U	340 U	360 U	360 U	350 U

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS
56-55-3	Benzo(a)anthracene	900	ug/kg
205-99-2	Benzo(b)fluoranthene	900	ug/kg
207-08-9	Benzo(k)fluoranthene	9000	ug/kg
50-32-8	Benzo(a)pyrene	660	ug/kg
218-01-9	Chrysene	90000	ug/kg
53-70-3	Dibenz(a,h)anthracene	660	ug/kg
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

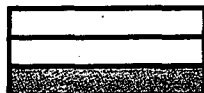
D - Diluted Sample Results

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502083

Confirmation/Documentation Sample Results for the Southwest Area - SW13

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	19 (continued)		20	
				RUSTIC-S6302D	RUSTIC-S6302E	RUSTIC-S6335D	RUSTIC-S6335E
				40 to 42 ft. MSL	40 to 42 ft. MSL	44 to 46 ft. MSL	42 to 44 ft. MSL
				10 to 12 ft. BGS	12 to 14 ft. BGS	6 to 8 ft. BGS	8 to 10 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	340 U	200 J	340 U	490
205-99-2	Benzo(b)fluoranthene	900	ug/kg	340 U	320 J	340 U	590
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	340 U	120 J	340 U	320 J
50-32-8	Benzo(a)pyrene	660	ug/kg	340 U	200 J	340 U	410
218-01-9	Chrysene	90000	ug/kg	340 U	190 J	340 U	450
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	340 U	360 U	340 U	45 J
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	340 U	100 J	340 U	140 J

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS
56-55-3	Benzo(a)anthracene	900	ug/kg
205-99-2	Benzo(b)fluoranthene	900	ug/kg
207-08-9	Benzo(k)fluoranthene	9000	ug/kg
50-32-8	Benzo(a)pyrene	660	ug/kg
218-01-9	Chrysene	90000	ug/kg
53-70-3	Dibenz(a,h)anthracene	660	ug/kg
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

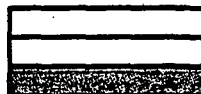
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502084

Confirmation/Documentation Sample Results for the Southwest Area - SW13

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	20 (continued)	21				
				RUSTIC-S6335G	RUSTIC-S6369B	RUSTIC-S6369C	RUSTIC-S6369C-D	RUSTIC-S6369D	
				38 to 40 ft. MSL	48 to 50 ft. MSL	46 to 48 ft. MSL	46 to 48 ft. MSL	44 to 46 ft. MSL	
				12 to 14 ft. BGS	2 to 4 ft. BGS	4 to 6 ft. BGS	4 to 6 ft. BGS	6 to 8 ft. BGS	
56-55-3	Benzo(a)anthracene	900	ug/kg	360 U	520	480	730	350	U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	360 U	730	550	750	350	U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	360 U	340 J	280 J	290 J	350	U
50-32-8	Benzo(a)pyrene	660	ug/kg	360 U	500	330 J	410	350	U
218-01-9	Chrysene	90000	ug/kg	360 U	550	470	690	350	U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	360 U	96 J	59 J	71 J	350	U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	360 U	250 J	170 J	190 J	350	U

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS
56-55-3	Benzo(a)anthracene	900	ug/kg
205-99-2	Benzo(b)fluoranthene	900	ug/kg
207-08-9	Benzo(k)fluoranthene	9000	ug/kg
50-32-8	Benzo(a)pyrene	660	ug/kg
218-01-9	Chrysene	90000	ug/kg
53-70-3	Dibenz(a,h)anthracene	660	ug/kg
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

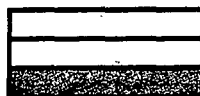
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502085

Confirmation/Documentation Sample Results for the Southwest Area - SW13

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	21 (continued)			22	
				RUSTIC-S6369E	RUSTIC-S6369F	RUSTIC-S6369G	RUSTIC-S6385D	RUSTIC-S6385E
				42 to 44 ft. MSL	40 to 42 ft. MSL	38 to 40 ft. MSL	44 to 46 ft. MSL	42 to 44 ft. MSL
				8 to 10 ft. BGS	10 to 12 ft. BGS	12 to 14 ft. BGS	6 to 8 ft. BGS	8 to 10 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	350 U	350 U	340 U	350 U	350 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	350 U	350 U	340 U	350 U	350 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	350 U	350 U	340 U	350 U	350 U
50-32-8	Benzo(a)pyrene	660	ug/kg	350 U	350 U	340 U	350 U	350 U
218-01-9	Chrysene	90000	ug/kg	350 U	350 U	340 U	350 U	350 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	350 U	350 U	340 U	350 U	350 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	350 U	350 U	340 U	350 U	350 U

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS
56-55-3	Benzo(a)anthracene	900	ug/kg
205-99-2	Benzo(b)fluoranthene	900	ug/kg
207-08-9	Benzo(k)fluoranthene	9000	ug/kg
50-32-8	Benzo(a)pyrene	660	ug/kg
218-01-9	Chrysene	90000	ug/kg
53-70-3	Dibenz(a,h)anthracene	660	ug/kg
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

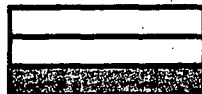
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502086

Confirmation/Documentation Sample Results for the Southwest Area - SW13

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	22 (continued)		23	
				RUSTIC-S6385F	RUSTIC-S6385G	Rustic-S218B	Rustic-S218C
				40 to 42 ft. MSL	38 to 40 ft. MSL	48 to 50 ft. MSL	40 to 42 ft. MSL
				10 to 12 ft. BGS	12 to 14 ft. BGS	2 to 4 ft. BGS	10 to 12 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	350 U	350 U	350 UJ	350 UJ
205-99-2	Benzo(b)fluoranthene	900	ug/kg	350 U	350 U	350 UJ	350 UJ
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	350 U	350 U	350 U	350 U
50-32-8	Benzo(a)pyrene	660	ug/kg	350 U	350 U	350 U	350 U
218-01-9	Chrysene	90000	ug/kg	350 U	350 U	350 U	350 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	350 U	350 U	350 UJ	350 UJ
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	350 U	350 U	350 U	350 U

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS
56-55-3	Benzo(a)anthracene	900	ug/kg
205-99-2	Benzo(b)fluoranthene	900	ug/kg
207-08-9	Benzo(k)fluoranthene	9000	ug/kg
50-32-8	Benzo(a)pyrene	660	ug/kg
218-01-9	Chrysene	90000	ug/kg
53-70-3	Dibenz(a,h)anthracene	660	ug/kg
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

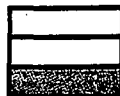
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Confirmation/Documentation Sample Results for the Southwest Area - SW13

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	24		25		26
				RUSTIC-S6226F	RUSTIC-S6226G	Rustic-S217B	Rustic-S217C	RUSTIC-S6366A
				40 to 42 ft. MSL	38 to 40 ft. MSL	48 to 50 ft. MSL	40 to 42 ft. MSL	50 to 51 ft. MSL
				10 to 12 ft. BGS	12 to 14 ft. BGS	2 to 4 ft. BGS	10 to 12 ft. BGS	1 to 2 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	350 U	340 U	350 U	360 U	380 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	350 U	340 U	350 U	360 U	380 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	350 U	340 U	350 U	360 U	380 U
50-32-8	Benzo(a)pyrene	660	ug/kg	350 U	340 U	350 U	360 U	380 U
218-01-9	Chrysene	90000	ug/kg	350 U	340 U	350 U	360 U	380 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	350 U	340 U	350 U	360 U	380 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	350 U	340 U	350 U	360 U	380 U

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS
56-55-3	Benzo(a)anthracene	900	ug/kg
205-99-2	Benzo(b)fluoranthene	900	ug/kg
207-08-9	Benzo(k)fluoranthene	9000	ug/kg
50-32-8	Benzo(a)pyrene	660	ug/kg
218-01-9	Chrysene	90000	ug/kg
53-70-3	Dibenz(a,h)anthracene	660	ug/kg
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

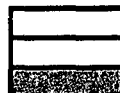
D - Diluted Sample Results

Legend

Confirmation Sample >

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Documentation Sample above Cleanup Goals >



502088

Confirmation/Documentation Sample Results for the Southwest Area - SW13

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	26 (continued)				
				RUSTIC-S6366B	RUSTIC-S6366C	RUSTIC-S6366C-D	RUSTIC-S6366F	RUSTIC-S6366G
				48 to 50 ft. MSL	46 to 48 ft. MSL	46 to 48 ft. MSL	40 to 42 ft. MSL	38 to 40 ft. MSL
				2 to 4 ft. BGS	4 to 6 ft. BGS	4 to 6 ft. BGS	10 to 12 ft. BGS	12 to 14 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	380 U	350 U	350 U	350 U	350 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	380 U	350 U	350 U	350 U	350 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	380 U	350 U	350 U	350 U	350 U
50-32-8	Benzo(a)pyrene	660	ug/kg	380 U	350 U	350 U	350 U	350 U
218-01-9	Chrysene	90000	ug/kg	380 U	350 U	350 U	350 U	350 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	380 U	350 U	350 U	350 U	350 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	380 U	350 U	350 U	350 U	350 U

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS
56-55-3	Benzo(a)anthracene	900	ug/kg
205-99-2	Benzo(b)fluoranthene	900	ug/kg
207-08-9	Benzo(k)fluoranthene	9000	ug/kg
50-32-8	Benzo(a)pyrene	660	ug/kg
218-01-9	Chrysene	90000	ug/kg
53-70-3	Dibenz(a,h)anthracene	660	ug/kg
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

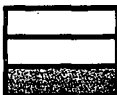
D - Diluted Sample Results

Legend

Confirmation Sample >

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502089

Confirmation/Documentation Sample Results for the Southwest Area - SW13

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	27				
				RUSTIC-S6365A	RUSTIC-S6365B	RUSTIC-S6365C	RUSTIC-S6365C-D	RUSTIC-S6365D
				50 to 51 ft. MSL	48 to 50 ft. MSL	46 to 48 ft. MSL	46 to 48 ft. MSL	44 to 46 ft. MSL
				1 to 2 ft. BGS	2 to 4 ft. BGS	4 to 6 ft. BGS	4 to 6 ft. BGS	6 to 8 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	370 U	380 U	340 U	340 U	350 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	370 U	380 U	340 U	340 U	350 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	370 U	380 U	340 U	340 U	350 U
50-32-8	Benzo(a)pyrene	660	ug/kg	370 U	380 U	340 U	340 U	350 U
218-01-9	Chrysene	90000	ug/kg	370 U	380 U	340 U	340 U	350 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	370 U	380 U	340 U	340 U	350 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	370 U	380 U	340 U	340 U	350 U

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS
56-55-3	Benzo(a)anthracene	900	ug/kg
205-99-2	Benzo(b)fluoranthene	900	ug/kg
207-08-9	Benzo(k)fluoranthene	9000	ug/kg
50-32-8	Benzo(a)pyrene	660	ug/kg
218-01-9	Chrysene	90000	ug/kg
53-70-3	Dibenz(a,h)anthracene	660	ug/kg
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

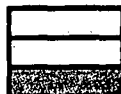
D - Diluted Sample Results

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502090

Confirmation/Documentation Sample Results for the Southwest Area - SW13

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	27 (continued)			28	
				RUSTIC-S6365E	RUSTIC-S6365F	RUSTIC-S6365G	RUSTIC-S6316A	RUSTIC-S6316B
				42 to 44 ft. MSL	40 to 42 ft. MSL	38 to 40 ft. MSL	50 to 51.5 ft. MSL	48 to 50 ft. MSL
				8 to 10 ft. BGS	10 to 12 ft. BGS	12 to 14 ft. BGS	0.5 to 2 ft. BGS	2 to 4 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	350 U	350 U	350 U	48 J	360 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	350 U	350 U	350 U	70 J	360 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	350 U	350 U	350 U	370 U	360 U
50-32-8	Benzo(a)pyrene	660	ug/kg	350 U	350 U	350 U	48 J	360 U
218-01-9	Chrysene	90000	ug/kg	350 U	350 U	350 U	59 J	360 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	350 U	350 U	350 U	370 U	360 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	350 U	350 U	350 U	370 U	360 U

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS
56-55-3	Benzo(a)anthracene	900	ug/kg
205-99-2	Benzo(b)fluoranthene	900	ug/kg
207-08-9	Benzo(k)fluoranthene	9000	ug/kg
50-32-8	Benzo(a)pyrene	660	ug/kg
218-01-9	Chrysene	90000	ug/kg
53-70-3	Dibenz(a,h)anthracene	660	ug/kg
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

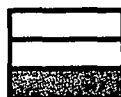
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502091

Confirmation/Documentation Sample Results for the Southwest Area - SW13

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	28 (continued)				
				RUSTIC-S6316C	RUSTIC-S6316D	RUSTIC-S6316E	RUSTIC-S6316F	RUSTIC-S6316G
				46 to 48 ft. MSL	44 to 46 ft. MSL	42 to 44 ft. MSL	40 to 42 ft. MSL	38 to 40 ft. MSL
				4 to 6 ft. BGS	6 to 8 ft. BGS	8 to 10 ft. BGS	10 to 12 ft. BGS	12 to 14 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	180 J	350 U	350 U	340 U	360 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	270 J	350 U	350 U	340 U	360 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	92 J	350 U	350 U	340 U	360 U
50-32-8	Benzo(a)pyrene	660	ug/kg	170 J	350 U	350 U	340 U	360 U
218-01-9	Chrysene	90000	ug/kg	120 J	350 U	350 U	340 U	360 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	340 U	350 U	350 U	340 U	360 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	87 J	350 U	350 U	340 U	360 U

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS
56-55-3	Benzo(a)anthracene	900	ug/kg
205-99-2	Benzo(b)fluoranthene	900	ug/kg
207-08-9	Benzo(k)fluoranthene	9000	ug/kg
50-32-8	Benzo(a)pyrene	660	ug/kg
218-01-9	Chrysene	90000	ug/kg
53-70-3	Dibenz(a,h)anthracene	660	ug/kg
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

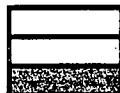
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502092

Confirmation/Documentation Sample Results for the Southwest Area - SW13

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	29				
				RUSTIC-S6321A	RUSTIC-S6321B	RUSTIC-S6321C	RUSTIC-S6321D	RUSTIC-S6321E
				50 to 51.5 ft. MSL	48 to 50 ft. MSL	46 to 48 ft. MSL	44 to 46 ft. MSL	42 to 44 ft. MSL
				0.5 to 2 ft. BGS	2 to 4 ft. BGS	4 to 6 ft. BGS	6 to 8 ft. BGS	8 to 10 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	47 J	370 U	56 J	350 U	350 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	91 J	370 U	76 J	350 U	350 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	370 U	370 U	44 J	350 U	350 U
50-32-8	Benzo(a)pyrene	660	ug/kg	58 J	370 U	56 J	350 U	350 U
218-01-9	Chrysene	90000	ug/kg	43 J	370 U	59 J	350 U	350 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	370 U	370 U	350 U	350 U	350 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	370 U	370 U	350 U	350 U	350 U

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS
56-55-3	Benzo(a)anthracene	900	ug/kg
205-99-2	Benzo(b)fluoranthene	900	ug/kg
207-08-9	Benzo(k)fluoranthene	9000	ug/kg
50-32-8	Benzo(a)pyrene	660	ug/kg
218-01-9	Chrysene	90000	ug/kg
53-70-3	Dibenz(a,h)anthracene	660	ug/kg
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

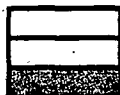
D - Diluted Sample Results

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502093

Confirmation/Documentation Sample Results for the Southwest Area - SW13

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	29 (continued)		30	31
				RUSTIC-S6321F	RUSTIC-S6321G	FCS-OU3-0079-SWA2-W2-34.5-7	FCS-OU3-0080-SWA2-W3-34.4-7
				40 to 42 ft. MSL	38 to 40 ft. MSL	34.5 ft. MSL	34.4 ft. MSL
				10 to 12 ft. BGS	12 to 14 ft. BGS	18.5 ft. BGS	18.6 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	350 U	340 U	1380	9360
205-99-2	Benzo(b)fluoranthene	900	ug/kg	350 U	340 U	1700	8230
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	350 U	340 U	816	3270
50-32-8	Benzo(a)pyrene	660	ug/kg	350 U	340 U	220	5860
218-01-9	Chrysene	90000	ug/kg	350 U	340 U	998	6810
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	350 U	340 U	150	942
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	350 U	340 U	272	

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS
56-55-3	Benzo(a)anthracene	900	ug/kg
205-99-2	Benzo(b)fluoranthene	900	ug/kg
207-08-9	Benzo(k)fluoranthene	9000	ug/kg
50-32-8	Benzo(a)pyrene	660	ug/kg
218-01-9	Chrysene	90000	ug/kg
53-70-3	Dibenz(a,h)anthracene	660	ug/kg
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

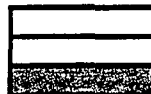
D - Diluted Sample Results

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Confirmation Sample >

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502094

Confirmation/Documentation Sample Results for the Southwest Area - SW13

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	32	33	34
				FCS-OU3-0081-SWA3-W1-35.5-7	FCS-OU3-0083-SWA3-W3-31.75-7	FCS-OU3-0084-SWA3-W4-32.65-7
				35.5 ft. MSL	31.75 ft. MSL	32.65 ft. MSL
				17.5 ft. BGS	21.25 ft. BGS	20.35 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	49700	32300	30300
205-99-2	Benzo(b)fluoranthene	900	ug/kg	52400	27100	33400
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	22300	13000	12600
50-32-8	Benzo(a)pyrene	660	ug/kg	40000	23700	22400
218-01-9	Chrysene	90000	ug/kg	40100	25200	23800
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	4670	2790	2810
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg			

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS
56-55-3	Benzo(a)anthracene	900	ug/kg
205-99-2	Benzo(b)fluoranthene	900	ug/kg
207-08-9	Benzo(k)fluoranthene	9000	ug/kg
50-32-8	Benzo(a)pyrene	660	ug/kg
218-01-9	Chrysene	90000	ug/kg
53-70-3	Dibenz(a,h)anthracene	660	ug/kg
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

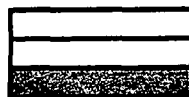
D - Diluted Sample Results

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502095

Confirmation/Documentation Sample Results for the Southwest Area - SW14

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	1	2	3
				FCS-OU3-0016-SW14-W1-52.0-7	FCS-OU3-0043-SW15-W1B-45.1-7	FCS-OU3-0085-SW14-W2E-51.0-7
				52.0 ft. MSL	45.1 ft. MSL	51.0 ft. MSL
				1.0 ft. BGS	7.9 ft. BGS	2.0 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	581	219	67 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	841	575	67 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	253	136	67 U
50-32-8	Benzo(a)pyrene	660	ug/kg	559	329	67 U
218-01-9	Chrysene	90000	ug/kg	535	218	67 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	104	67 U	67 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	290	160	67 U

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	1
				FCS-OU3-0036-SW14-FA-48.0-7
				48.0 ft. MSL
				5.0 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	67 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	67 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	67 U
50-32-8	Benzo(a)pyrene	660	ug/kg	67 U
218-01-9	Chrysene	90000	ug/kg	67 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	67 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	67 U

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

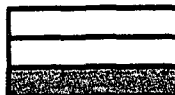
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Confirmation/Documentation Sample Results for the Southwest Area - SW15

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	1	2	3	4	5
				FCS-OU3-0028-SW15-W6-43.0-7	FCS-OU3-0047-SW15-W2B-46.7-7	FCS-OU3-0060-SW15-W7-49.5-7	FCS-OU3-0070-SW15-W3C-50.9-7	FCS-OU3-0090-SW15-W4B-45.5-7
				43.0 ft. MSL	46.7 ft. MSL	49.5 ft. MSL	50.9 ft. MSL	45.5 ft. MSL
				10.0 ft. BGS	6.3 ft. BGS	3.5 ft. BGS	2.1 ft. BGS	7.5 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	67 U	85	67 U	67 U	67 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	67 U	67 U	67 U	67 U	67 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	67 U	107	67 U	67 U	108
50-32-8	Benzo(a)pyrene	660	ug/kg	67 U	67 U	67 U	67 U	70
218-01-9	Chrysene	90000	ug/kg	67 U	100	67 U	67 U	80
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	67 U	67 U	67 U	67 U	67 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	67 U	67 U	67 U	67 U	67 U

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	1
				FCS-OU3-0020-SW15-F1-41.1-7
				41.1 ft. MSL
				11.9 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	67 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	67 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	67 U
50-32-8	Benzo(a)pyrene	660	ug/kg	67 U
218-01-9	Chrysene	90000	ug/kg	67 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	67 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	67 U

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

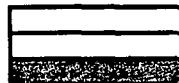
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502097

Confirmation/Documentation Sample Results for the Southwest Area - SW15

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	6	7	8	9
				Rustic-S218C	RUSTIC-S6226F	RUSTIC-S6226G	Rustic-S217B
				40 to 42 ft. MSL	40 to 42 ft. MSL	38 to 40 ft. MSL	48 to 50 ft. MSL
				10 to 12 ft. BGS	10 to 12 ft. BGS	12 to 14 ft. BGS	2 to 4 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	350 UJ	350 U	340 U	350 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	350 UJ	350 U	340 U	350 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	350 U	350 U	340 U	350 U
50-32-8	Benzo(a)pyrene	660	ug/kg	350 U	350 U	340 U	350 U
218-01-9	Chrysene	90000	ug/kg	350 U	350 U	340 U	350 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	350 UJ	350 U	340 U	350 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	350 U	350 U	340 U	350 U

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS
56-55-3	Benzo(a)anthracene	900	ug/kg
205-99-2	Benzo(b)fluoranthene	900	ug/kg
207-08-9	Benzo(k)fluoranthene	9000	ug/kg
50-32-8	Benzo(a)pyrene	660	ug/kg
218-01-9	Chrysene	90000	ug/kg
53-70-3	Dibenz(a,h)anthracene	660	ug/kg
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

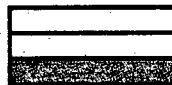
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Documentation Sample above Cleanup Goals >



502098

Confirmation/Documentation Sample Results for the Southwest Area - SW15

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	9 (continued)				
				RUSTIC-S6366B	RUSTIC-S6366C	RUSTIC-S6366C-D	RUSTIC-S6366F	RUSTIC-S6366G
				48 to 50 ft. MSL	48 to 48 ft. MSL	48 to 48 ft. MSL	40 to 42 ft. MSL	38 to 40 ft. MSL
				2 to 4 ft. BGS	4 to 6 ft. BGS	4 to 6 ft. BGS	10 to 12 ft. BGS	12 to 14 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	380 U	350 U	350 U	350 U	350 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	380 U	350 U	350 U	350 U	350 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	380 U	350 U	350 U	350 U	350 U
50-32-8	Benzo(a)pyrene	660	ug/kg	380 U	350 U	350 U	350 U	350 U
218-01-9	Chrysene	90000	ug/kg	380 U	350 U	350 U	350 U	350 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	380 U	350 U	350 U	350 U	350 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	380 U	350 U	350 U	350 U	350 U

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS
56-55-3	Benzo(a)anthracene	900	ug/kg
205-99-2	Benzo(b)fluoranthene	900	ug/kg
207-08-9	Benzo(k)fluoranthene	9000	ug/kg
50-32-8	Benzo(a)pyrene	660	ug/kg
218-01-9	Chrysene	90000	ug/kg
53-70-3	Dibenz(a,h)anthracene	660	ug/kg
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

D - Diluted Sample Results

Legend

Confirmation Sample >

Documentation Sample below Cleanup Goals >

Documentation Sample above Cleanup Goals >



502099

9/3/2008

Confirmation/Documentation Sample Results for the Southwest Area - SW15

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	10				
				RUSTIC-S6365A	RUSTIC-S6365B	RUSTIC-S6365C	RUSTIC-S6365C-D	RUSTIC-S6365D
				50 to 51 ft. MSL	48 to 50 ft. MSL	46 to 48 ft. MSL	46 to 48 ft. MSL	44 to 46 ft. MSL
				1 to 2 ft. BGS	2 to 4 ft. BGS	4 to 6 ft. BGS	4 to 6 ft. BGS	6 to 8 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	370 U	380 U	340 U	340 U	350 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	370 U	380 U	340 U	340 U	350 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	370 U	380 U	340 U	340 U	350 U
50-32-8	Benzo(a)pyrene	660	ug/kg	370 U	380 U	340 U	340 U	350 U
218-01-9	Chrysene	90000	ug/kg	370 U	380 U	340 U	340 U	350 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	370 U	380 U	340 U	340 U	350 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	370 U	380 U	340 U	340 U	350 U

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS
56-55-3	Benzo(a)anthracene	900	ug/kg
205-99-2	Benzo(b)fluoranthene	900	ug/kg
207-08-9	Benzo(k)fluoranthene	9000	ug/kg
50-32-8	Benzo(a)pyrene	660	ug/kg
218-01-9	Chrysene	90000	ug/kg
53-70-3	Dibenz(a,h)anthracene	660	ug/kg
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

D - Diluted Sample Results

Legend

Confirmation Sample >

Documentation Sample below Cleanup Goals >

Documentation Sample above Cleanup Goals >



502100

Confirmation/Documentation Sample Results for the Southwest Area - SW15

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	10 (continued)			11	
				RUSTIC-S6365E	RUSTIC-S6365F	RUSTIC-S6365G	RUSTIC-S6316A	RUSTIC-S6316B
				42 to 44 ft. MSL	40 to 42 ft. MSL	38 to 40 ft. MSL	50 to 51.5 ft. MSL	48 to 50 ft. MSL
				8 to 10 ft. BGS	10 to 12 ft. BGS	12 to 14 ft. BGS	0.5 to 2 ft. BGS	2 to 4 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	350 U	350 U	350 U	48 J	360 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	350 U	350 U	350 U	70 J	360 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	350 U	350 U	350 U	370 U	360 U
50-32-8	Benzo(a)pyrene	660	ug/kg	350 U	350 U	350 U	48 J	360 U
218-01-9	Chrysene	90000	ug/kg	350 U	350 U	350 U	59 J	360 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	350 U	350 U	350 U	370 U	360 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	350 U	350 U	350 U	370 U	360 U

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS
56-55-3	Benzo(a)anthracene	900	ug/kg
205-99-2	Benzo(b)fluoranthene	900	ug/kg
207-08-9	Benzo(k)fluoranthene	9000	ug/kg
50-32-8	Benzo(a)pyrene	660	ug/kg
218-01-9	Chrysene	90000	ug/kg
53-70-3	Dibenz(a,h)anthracene	660	ug/kg
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

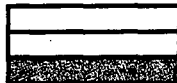
D - Diluted Sample Results

Legend

Confirmation Sample >

Documentation Sample below Cleanup Goals >

Documentation Sample above Cleanup Goals >



502101

Confirmation/Documentation Sample Results for the Southwest Area - SW15

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	11 (continued)				
				RUSTIC-S6316C	RUSTIC-S6316D	RUSTIC-S6316E	RUSTIC-S6316F	RUSTIC-S6316G
				46 to 48 ft. MSL	44 to 48 ft. MSL	42 to 44 ft. MSL	40 to 42 ft. MSL	38 to 40 ft. MSL
				4 to 6 ft. BGS	6 to 8 ft. BGS	8 to 10 ft. BGS	10 to 12 ft. BGS	12 to 14 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	180 J	350 U	350 U	340 U	360 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	270 J	350 U	350 U	340 U	360 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	92 J	350 U	350 U	340 U	360 U
50-32-8	Benzo(a)pyrene	660	ug/kg	170 J	350 U	350 U	340 U	360 U
218-01-9	Chrysene	90000	ug/kg	120 J	350 U	350 U	340 U	360 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	340 U	350 U	350 U	340 U	360 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	87 J	350 U	350 U	340 U	360 U

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS
56-55-3	Benzo(a)anthracene	900	ug/kg
205-99-2	Benzo(b)fluoranthene	900	ug/kg
207-08-9	Benzo(k)fluoranthene	9000	ug/kg
50-32-8	Benzo(a)pyrene	660	ug/kg
218-01-9	Chrysene	90000	ug/kg
53-70-3	Dibenz(a,h)anthracene	660	ug/kg
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

D - Diluted Sample Results

Legend

Confirmation Sample >

Documentation Sample below Cleanup Goals >

Documentation Sample above Cleanup Goals >



502102

Confirmation/Documentation Sample Results for the Southwest Area - SW15

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	12				
				RUSTIC-S6321A	RUSTIC-S6321B	RUSTIC-S6321C	RUSTIC-S6321D	RUSTIC-S6321E
				50 to 51.5 ft. MSL	48 to 50 ft. MSL	46 to 48 ft. MSL	44 to 46 ft. MSL	42 to 44 ft. MSL
				0.5 to 2 ft. BGS	2 to 4 ft. BGS	4 to 6 ft. BGS	6 to 8 ft. BGS	8 to 10 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	47 J	370 U	56 J	350 U	350 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	91 J	370 U	76 J	350 U	350 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	370 U	370 U	44 J	350 U	350 U
50-32-8	Benzo(a)pyrene	660	ug/kg	58 J	370 U	56 J	350 U	350 U
218-01-9	Chrysene	90000	ug/kg	43 J	370 U	59 J	350 U	350 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	370 U	370 U	350 U	350 U	350 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	370 U	370 U	350 U	350 U	350 U

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS
56-55-3	Benzo(a)anthracene	900	ug/kg
205-99-2	Benzo(b)fluoranthene	900	ug/kg
207-08-9	Benzo(k)fluoranthene	9000	ug/kg
50-32-8	Benzo(a)pyrene	660	ug/kg
218-01-9	Chrysene	90000	ug/kg
53-70-3	Dibenz(a,h)anthracene	660	ug/kg
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

D - Diluted Sample Results

Legend

Confirmation Sample >

Documentation Sample below Cleanup Goals >

Documentation Sample above Cleanup Goals >



502103

9/3/2008

Confirmation/Documentation Sample Results for the Southwest Area - SW15

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	12 (continued)	
				RUSTIC-S6321F	RUSTIC-S6321G
				40 to 42 ft. MSL	38 to 40 ft. MSL
				10 to 12 ft. BGS	12 to 14 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	350 U	340 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	350 U	340 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	350 U	340 U
50-32-8	Benzo(a)pyrene	660	ug/kg	350 U	340 U
218-01-9	Chrysene	90000	ug/kg	350 U	340 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	350 U	340 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	350 U	340 U

BOTTOM SAMPLES

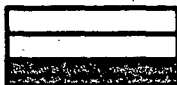
CAS#	COMPOUND	ACG CRITERIA	UNITS
56-55-3	Benzo(a)anthracene	900	ug/kg
205-99-2	Benzo(b)fluoranthene	900	ug/kg
207-08-9	Benzo(k)fluoranthene	9000	ug/kg
50-32-8	Benzo(a)pyrene	660	ug/kg
218-01-9	Chrysene	90000	ug/kg
53-70-3	Dibenz(a,h)anthracene	660	ug/kg
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg

*NOTE: All data has been validated

Data Qualifiers:
 ND - No Data
 U - Non Detect
 J - Estimated Value
 D - Diluted Sample Results

Legend

Confirmation Sample >
 Documentation Sample below Cleanup Goals >
 Documentation Sample above Cleanup Goals >



502104

Confirmation/Documentation Sample Results for the Southwest Area

CAS#	COMPOUND	CRITERIA		UNITS	1	2
		ACG	10xUTS		RUSTIC-S6566A 0 to 2 ft. BGS	RUSTIC-S6567A 0 to 2 ft. BGS
83-32-9	Acenaphthene	-	34000	ug/kg	360 U	360 U
120-12-7	Anthracene	-	34000	ug/kg	360 U	360 U
56-55-3	Benzo(a)anthracene	900	34000	ug/kg	98 J	38 J
205-99-2	Benzo(b)fluoranthene	900	68000	ug/kg	120 J	51 J
207-08-9	Benzo(k)fluoranthene	9000	68000	ug/kg	56 J	360 U
50-32-8	Benzo(a)pyrene	660	34000	ug/kg	69 J	360 U
218-01-9	Chrysene	90000	34000	ug/kg	100 J	43 J
53-70-3	Dibenz(a,h)anthracene	660	82000	ug/kg	360 U	360 U
86-73-7	Fluorene	-	34000	ug/kg	360 U	360 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	34000	ug/kg	44 J	360 U
91-20-3	Naphthalene	-	56000	ug/kg	360 U	360 U
85-01-8	Phenanthrene	-	56000	ug/kg	360 U	360 U
129-00-0	Pyrene	-	82000	ug/kg	140 J	360 U

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

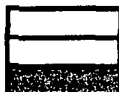
D - Diluted Sample Results

Legend

Confirmation Sample >

Documentation Sample below Cleanup Goals >

Documentation Sample above Cleanup Goals >



Confirmation/Documentation Sample Results for the South Area - S1

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	1	2	3
				RUSTIC-D083A	RUSTIC-S6570A	RUSTIC-S6571A
				52 to 53.5 ft. MSL 0.5 to 2 ft. BGS	52 to 54 ft. MSL 0 to 2 ft. BGS	52 to 54 ft. MSL 0 to 2 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	120 J	380 U	430
205-99-2	Benzo(b)fluoranthene	900	ug/kg	290 J	380 U	880
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	140 J	380 U	380 J
50-32-8	Benzo(a)pyrene	660	ug/kg	160 J	380 U	470
218-01-9	Chrysene	90000	ug/kg	160 J	380 U	600
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	58 J	380 U	62 J
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	120 J	380 U	170 J

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	1	2	3
				RUSTIC-S6225B	RUSTIC-S6229B	RUSTIC-D083B
				50 to 52 ft. MSL 2 to 4 ft. BGS	50 to 52 ft. MSL 2 to 4 ft. BGS	50 to 52 ft. MSL 2 to 4 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	89 J	380 U	40 J
205-99-2	Benzo(b)fluoranthene	900	ug/kg	140 J	380 U	120 J
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	69 J	380 U	68 J
50-32-8	Benzo(a)pyrene	660	ug/kg	68 J	380 U	62 J
218-01-9	Chrysene	90000	ug/kg	100 J	380 U	64 J
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	370 U	380 U	380 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	48 J	380 U	42 J

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

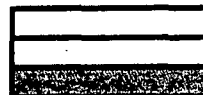
D - Diluted Sample Results

Legend

Confirmation Sample >

Documentation Sample below Cleanup Goals >

Documentation Sample above Cleanup Goals >



502106

Confirmation/Documentation Sample Results for the South Area - S2

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	1					2	
				Rustic-S6003D	Rustic-S6003E	Rustic-S6003F	Rustic-S6003G	Rustic-S6002D		
				45 to 47 ft. MSL 6 to 8 ft. BGS	43 to 45 ft. MSL 8 to 10 ft. BGS	41 to 43 ft. MSL 10 to 12 ft. BGS	39 to 41 ft. MSL 12 to 14 ft. BGS	45 to 47 ft. MSL 6 to 8 ft. BGS		
56-55-3	Benzo(a)anthracene	900	ug/kg	340 U	39 J	430 U	450 U	360 U		
205-99-2	Benzo(b)fluoranthene	900	ug/kg	340 U	370 U	430 U	450 U	380 U		
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	340 U	370 U	430 U	450 U	380 U		
50-32-8	Benzo(a)pyrene	660	ug/kg	340 U	370 U	430 U	450 U	360 U		
218-01-9	Chrysene	90000	ug/kg	340 U	370 U	430 U	450 U	380 U		
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	340 U	370 U	430 U	450 U	380 U		
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	340 U	370 U	430 U	450 U	360 U		

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	1	2	3	4	5
				Rustic-S6004H	Rustic-S6005H	RUSTIC-S6200H	RUSTIC-S6201H	RUSTIC-S6202H
				37 to 39 ft. MSL 14 to 16 ft. BGS	37 to 39 ft. MSL 14 to 16 ft. BGS	37 to 39 ft. MSL 14 to 16 ft. BGS	37 to 39 ft. MSL 14 to 16 ft. BGS	37 to 39 ft. MSL 14 to 16 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	3100	370 J	430 U	52 J	15000 D
205-99-2	Benzo(b)fluoranthene	900	ug/kg	2100	240 J	430 U	450 U	5200 DJ
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	830	96 J	430 U	450 U	3700
50-32-8	Benzo(a)pyrene	660	ug/kg	1900	170 J	430 U	450 U	5300
218-01-9	Chrysene	90000	ug/kg	2100	320 J	430 U	450 U	14000 D
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	180 J	460 U	430 U	450 U	400 J
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	630	80 J	430 U	450 U	1600

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

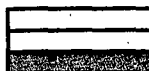
D - Diluted Sample Results

Legend

Confirmation Sample >

Documentation Sample below Cleanup Goals >

Documentation Sample above Cleanup Goals >



502107

Confirmation/Documentation Sample Results for the South Area - S2

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	2 (continued)			3	
				Rustic-S6002E	Rustic-S6002F	Rustic-S6002G	Rustic-S6001C	Rustic-S6001D
				43 to 45 ft. MSL 8 to 10 ft. BGS	41 to 43 ft. MSL 10 to 12 ft. BGS	39 to 41 ft. MSL 12 to 14 ft. BGS	47 to 49 ft. MSL 4 to 6 ft. BGS	45 to 47 ft. MSL 6 to 8 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	350 U	430 U	440 U	350 U	350 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	350 U	430 U	440 U	350 U	350 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	350 U	430 U	440 U	350 U	350 U
50-32-8	Benzo(a)pyrene	660	ug/kg	350 U	430 U	440 U	350 U	350 U
218-01-9	Chrysene	90000	ug/kg	350 U	430 U	440 U	350 U	350 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	350 U	430 U	440 U	350 U	350 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	350 U	430 U	440 U	350 U	350 U

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	6	7	8	9
				RUSTIC-S6203H	RUSTIC-S6203H-D	RUSTIC-S6204H	RUSTIC-S6205H
				37 to 39 ft. MSL 14 to 16 ft. BGS	37 to 39 ft. MSL 14 to 16 ft. BGS	37 to 39 ft. MSL 14 to 16 ft. BGS	37 to 39 ft. MSL 14 to 16 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	600 D	600	400	420 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	600	740	1800	420 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	2000	340 J	890	420 U
50-32-8	Benzo(a)pyrene	660	ug/kg	300	540	1200	420 U
218-01-9	Chrysene	90000	ug/kg	5800	980	1800	420 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	280 J	56 J	140 J	420 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	730	170 J	430	420 U

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

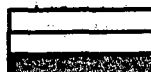
D - Diluted Sample Results

Legend

Confirmation Sample >

Documentation Sample below Cleanup Goals >

Documentation Sample above Cleanup Goals >



502108

Confirmation/Documentation Sample Results for the South Area - S2

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	3 continued			4	
				Rustic-S6001E	Rustic-S6001F	Rustic-S6001G	RUSTIC-S6563C	RUSTIC-S6563D
				43 to 45 ft. MSL	41 to 43 ft. MSL	39 to 41 ft. MSL	47 to 49 ft. MSL	45 to 47 ft. MSL
				8 to 10 ft. BGS	10 to 12 ft. BGS	12 to 14 ft. BGS	4 to 6 ft. BGS	6 to 8 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	360 U	390 U	430 U	110 J	350 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	360 U	390 U	430 U	140 J	350 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	380 U	390 U	430 U	55 J	350 U
50-32-8	Benzo(e)pyrene	660	ug/kg	380 U	390 U	430 U	87 J	350 U
218-01-9	Chrysene	90000	ug/kg	380 U	390 U	430 U	140 J	350 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	380 U	390 U	430 U	350 U	350 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	380 U	390 U	430 U	350 U	350 U

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	10	11	12	13
				RUSTIC-S6207H	RUSTIC-S6207H-D	Rustic-S6014H	Rustic-S6012H
				37 to 39 ft. MSL	37 to 39 ft. MSL	37 to 39 ft. MSL	37 to 39 ft. MSL
				14 to 16 ft. BGS	14 to 16 ft. BGS	14 to 16 ft. BGS	14 to 16 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	350 U	350 U	350 U	37000 J
205-99-2	Benzo(b)fluoranthene	900	ug/kg	350 U	350 U	350 U	34000 J
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	350 U	350 U	350 U	35000 J
50-32-8	Benzo(e)pyrene	660	ug/kg	350 U	350 U	350 U	33000 J
218-01-9	Chrysene	90000	ug/kg	350 U	350 U	350 U	36000 J
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	350 U	350 U	350 U	3400 J
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	350 U	350 U	350 U	3500 J

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

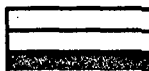
D - Diluted Sample Results

Legend

Confirmation Sample >

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502109

Confirmation/Documentation Sample Results for the South Area - S2

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	4 (continued)		
				RUSTIC-S8583E	RUSTIC-S8583F	RUSTIC-S8583G
				43 to 45 ft. MSL	41 to 43 ft. MSL	39 to 41 ft. MSL
				8 to 10 ft. BGS	10 to 12 ft. BGS	12 to 14 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	46 J	350 U	360 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	61 J	350 U	360 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	350 U	350 U	360 U
50-32-8	Benzo(a)pyrene	660	ug/kg	350 U	350 U	360 U
218-01-9	Chrysene	90000	ug/kg	55 J	350 U	360 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	350 U	350 U	360 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	350 U	350 U	360 U

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	14	15	16	17
				Rustic-S8010H	Rustic-S8009H	Rustic-S8008H	Rustic-S8007H
				37 to 39 ft. MSL	37 to 39 ft. MSL	37 to 39 ft. MSL	37 to 39 ft. MSL
				14 to 16 ft. BGS	14 to 16 ft. BGS	14 to 16 ft. BGS	14 to 16 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	580	18000	3700	2200
205-99-2	Benzo(b)fluoranthene	900	ug/kg	280 J	1000	2200	670
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	100 J	6400	980	300 J
50-32-8	Benzo(a)pyrene	660	ug/kg	180 J	1000	1500	480
218-01-9	Chrysene	90000	ug/kg	300 J	18000	2800	1000
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	430 U	J	230 J	78 J
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	57 J	J	810	280 J

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

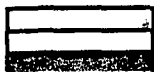
D - Diluted Sample Results

Legend

Confirmation Sample >

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502110

Confirmation/Documentation Sample Results for the South Area - S2

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS
56-55-3	Benzo(a)anthracene	900	ug/kg
205-99-2	Benzo(b)fluoranthene	900	ug/kg
207-08-9	Benzo(k)fluoranthene	9000	ug/kg
50-32-8	Benzo(a)pyrene	660	ug/kg
218-01-9	Chrysene	90000	ug/kg
53-70-3	Dibenz(a,h)anthracene	860	ug/kg
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	18		19	
				Rustic-S6006H	Rustic-S6006H-D	Rustic-S209D	
				37 to 39 ft. MSL	37 to 39 ft. MSL	37 to 39 ft. MSL	
				14 to 16 ft. BGS	14 to 16 ft. BGS	14 to 16 ft. BGS	
56-55-3	Benzo(a)anthracene	900	ug/kg	4000 D	5900	7900	D
205-99-2	Benzo(b)fluoranthene	900	ug/kg	5000 DJ	7400	6600	D
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	4100	1800	2400	
50-32-8	Benzo(a)pyrene	660	ug/kg	5000	2500	4000	D
218-01-9	Chrysene	90000	ug/kg	8600 DJ	5400	7800	D
53-70-3	Dibenz(a,h)anthracene	860	ug/kg	360 J	340 J	560	J
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg				

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

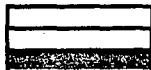
D - Diluted Sample Results

Legend

Confirmation Sample >

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502111

Confirmation/Documentation Sample Results for the South Area - S2

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	5				
				RUSTIC-S6562C	RUSTIC-S6562C-D	RUSTIC-S6562D	RUSTIC-S6562E	RUSTIC-S6562E-D
				47 to 49 ft. MSL 4 to 6 ft. BGS	47 to 49 ft. MSL 4 to 6 ft. BGS	45 to 47 ft. MSL 6 to 8 ft. BGS	43 to 45 ft. MSL 6 to 10 ft. BGS	43 to 45 ft. MSL 6 to 10 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	370 U	380 U	350 U	350 U	360 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	370 U	380 U	350 U	350 U	380 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	370 U	380 U	350 U	350 U	380 U
50-32-8	Benzo(e)pyrene	880	ug/kg	370 U	380 U	350 U	350 U	360 U
218-01-9	Chrysene	90000	ug/kg	370 U	380 U	350 U	350 U	360 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	370 U	380 U	350 U	350 U	360 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	370 U	380 U	350 U	350 U	360 U

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS
56-55-3	Benzo(a)anthracene	900	ug/kg
205-99-2	Benzo(b)fluoranthene	900	ug/kg
207-08-9	Benzo(k)fluoranthene	9000	ug/kg
50-32-8	Benzo(e)pyrene	880	ug/kg
218-01-9	Chrysene	90000	ug/kg
53-70-3	Dibenz(a,h)anthracene	660	ug/kg
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

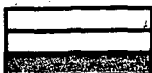
D - Diluted Sample Results

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Documentation Sample above Cleanup Goals >



502112

Confirmation/Documentation Sample Results for the South Area - S2

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	5 (continued)		6		7	
				RUSTIC-S6562F	RUSTIC-S6562G	RUSTIC-S6561B	RUSTIC-S6561C	RUSTIC-S6561D	
				41 to 43 ft. MSL	39 to 41 ft. MSL	49 to 51 ft. MSL	47 to 49 ft. MSL	45 to 47 ft. MSL	
				10 to 12 ft. BGS	12 to 14 ft. BGS	2 to 4 ft. BGS	4 to 6 ft. BGS	6 to 8 ft. BGS	
56-55-3	Benzo(a)anthracene	900	ug/kg	350 U	350 U	360 U	350 U	340 U	
205-99-2	Benzo(b)fluoranthene	900	ug/kg	350 U	350 U	360 U	350 U	340 U	
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	350 U	350 U	360 U	350 U	340 U	
50-32-8	Benzo(a)pyrene	880	ug/kg	350 U	350 U	360 U	350 U	340 U	
218-01-9	Chrysene	90000	ug/kg	350 U	350 U	360 U	350 U	340 U	
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	350 U	350 U	360 U	350 U	340 U	
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	350 U	350 U	360 U	350 U	340 U	

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS
56-55-3	Benzo(a)anthracene	900	ug/kg
205-99-2	Benzo(b)fluoranthene	900	ug/kg
207-08-9	Benzo(k)fluoranthene	9000	ug/kg
50-32-8	Benzo(a)pyrene	880	ug/kg
218-01-9	Chrysene	90000	ug/kg
53-70-3	Dibenz(a,h)anthracene	660	ug/kg
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

D - Diluted Sample Results

Legend

Confirmation Sample >

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502113

Confirmation/Documentation Sample Results for the South Area - S2

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	6 (continued)			7
				RUSTIC-S8561E	RUSTIC-S8561F	RUSTIC-S8561G	RUSTIC-S8560B
				43 to 45 ft. MSL	41 to 43 ft. MSL	39 to 41 ft. MSL	49 to 51 ft. MSL
				6 to 10 ft. BGS	10 to 12 ft. BGS	12 to 14 ft. BGS	2 to 4 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	340 U	360 U	350 U	380 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	340 U	360 U	350 U	380 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	340 U	360 U	350 U	380 U
50-32-8	Benzo(a)pyrene	660	ug/kg	340 U	360 U	350 U	380 U
218-01-9	Chrysene	90000	ug/kg	340 U	360 U	350 U	380 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	340 U	360 U	350 U	380 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	340 U	360 U	350 U	380 U

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS
56-55-3	Benzo(a)anthracene	900	ug/kg
205-99-2	Benzo(b)fluoranthene	900	ug/kg
207-08-9	Benzo(k)fluoranthene	9000	ug/kg
50-32-8	Benzo(a)pyrene	660	ug/kg
218-01-9	Chrysene	90000	ug/kg
53-70-3	Dibenz(a,h)anthracene	660	ug/kg
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

D - Diluted Sample Results

Legend

Confirmation Sample >

Documentation Sample below Cleanup Goals >

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502114

Confirmation/Documentation Sample Results for the South Area - S2

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	7 (continued)				
				RUSTIC-S6560C	RUSTIC-S6560C-D	RUSTIC-S6560D	RUSTIC-S6560E	RUSTIC-S6560E-D
				47 to 49 ft. MSL 4 to 6 ft. BGS	47 to 49 ft. MSL 4 to 6 ft. BGS	45 to 47 ft. MSL 6 to 8 ft. BGS	43 to 45 ft. MSL 8 to 10 ft. BGS	43 to 45 ft. MSL 8 to 10 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	350 U	37 J	350 U	350 U	340 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	350 U	68 J	350 U	350 U	340 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	350 U	350 U	350 U	350 U	340 U
50-32-8	Benzo(a)pyrene	660	ug/kg	350 U	350 U	350 U	350 U	340 U
218-01-9	Chrysene	90000	ug/kg	350 U	54 J	350 U	350 U	340 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	350 U	350 U	350 U	350 U	340 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	350 U	350 U	350 U	350 U	340 U

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS
56-55-3	Benzo(a)anthracene	900	ug/kg
205-99-2	Benzo(b)fluoranthene	900	ug/kg
207-08-9	Benzo(k)fluoranthene	9000	ug/kg
50-32-8	Benzo(a)pyrene	660	ug/kg
218-01-9	Chrysene	90000	ug/kg
53-70-3	Dibenz(a,h)anthracene	660	ug/kg
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

D - Diluted Sample Results

Legend

Confirmation Sample >

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502115

Confirmation/Documentation Sample Results for the South Area - S2

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	7 (continued)		
				RUSTIC-S6560F	RUSTIC-S6560G	RUSTIC-S6560G-D
				41 to 43 ft. MSL	39 to 41 ft. MSL	39 to 41 ft. MSL
				10 to 12 ft. BGS	12 to 14 ft. BGS	12 to 14 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	340 U	350 U	340 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	340 U	350 U	340 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	340 U	350 U	340 U
50-32-8	Benzo(e)pyrene	660	ug/kg	340 U	350 U	340 U
218-01-9	Chrysene	90000	ug/kg	340 U	350 U	340 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	340 U	350 U	340 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	340 U	350 U	340 U

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS
56-55-3	Benzo(a)anthracene	900	ug/kg
205-99-2	Benzo(b)fluoranthene	900	ug/kg
207-08-9	Benzo(k)fluoranthene	9000	ug/kg
50-32-8	Benzo(e)pyrene	660	ug/kg
218-01-9	Chrysene	90000	ug/kg
53-70-3	Dibenz(a,h)anthracene	660	ug/kg
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

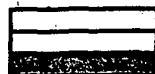
D - Diluted Sample Results

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Confirmation Sample >

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502116

Confirmation/Documentation Sample Results for the South Area - S2

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	B				
				Rustic-S8013D	Rustic-S8013E	Rustic-S8013E-D	Rustic-S8013F	Rustic-S8013G
				45 to 47 ft. MSL 6 to 8 ft. BGS	43 to 45 ft. MSL 8 to 10 ft. BGS	43 to 45 ft. MSL 8 to 10 ft. BGS	41 to 43 ft. MSL 10 to 12 ft. BGS	39 to 41 ft. MSL 12 to 14 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	360 U	350 U	350 U	350 U	350 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	360 U	350 U	350 U	350 U	350 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	360 U	350 U	350 U	350 U	350 U
50-32-8	Benzo(a)pyrene	660	ug/kg	360 U	350 U	350 U	350 U	350 U
218-01-9	Chrysene	90000	ug/kg	360 U	350 U	350 U	350 U	350 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	360 U	350 U	350 U	350 U	350 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	360 U	350 U	350 U	350 U	350 U

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS
56-55-3	Benzo(a)anthracene	900	ug/kg
205-99-2	Benzo(b)fluoranthene	900	ug/kg
207-08-9	Benzo(k)fluoranthene	9000	ug/kg
50-32-8	Benzo(a)pyrene	660	ug/kg
218-01-9	Chrysene	90000	ug/kg
53-70-3	Dibenz(a,h)anthracene	660	ug/kg
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

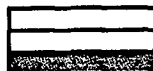
D - Diluted Sample Results

Legend

Confirmation Sample >

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502117

Confirmation/Documentation Sample Results for the South Area - S2

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	9		10	
				Rustic-S221B	Rustic-S221C	RUSTIC-S6206C	RUSTIC-S6208D
				49 to 51 ft. MSL	41 to 43 ft. MSL	47 to 49 ft. MSL	45 to 47 ft. MSL
				2 to 4 ft. BGS	10 to 12 ft. BGS	4 to 6 ft. BGS	6 to 8 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	370 U	350 U	280 J	350 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	370 U	350 U	310 J	350 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	370 U	350 U	140 J	350 U
50-32-8	Benzo(e)pyrene	660	ug/kg	370 U	350 U	190 J	350 U
218-01-9	Chrysene	90000	ug/kg	370 U	350 U	290 J	350 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	370 U	350 U	360 U	350 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	370 U	350 U	100 J	350 U

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS
56-55-3	Benzo(a)anthracene	900	ug/kg
205-99-2	Benzo(b)fluoranthene	900	ug/kg
207-08-9	Benzo(k)fluoranthene	9000	ug/kg
50-32-8	Benzo(e)pyrene	660	ug/kg
218-01-9	Chrysene	90000	ug/kg
53-70-3	Dibenz(a,h)anthracene	660	ug/kg
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

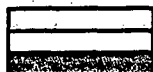
D - Diluted Sample Results

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502118

Confirmation/Documentation Sample Results for the South Area - S2

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	10 (continued)			11	
				RUSTIC-S6208E	RUSTIC-S6208F	RUSTIC-S6208G	RUSTIC-S6207B	RUSTIC-S6207C
				43 to 45 ft. MSL	41 to 43 ft. MSL	39 to 41 ft. MSL	49 to 51 ft. MSL	47 to 49 ft. MSL
				8 to 10 ft. BGS	10 to 12 ft. BGS	12 to 14 ft. BGS	2 to 4 ft. BGS	4 to 6 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	270 J	360 U	350 U	380 U	360 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	220 J	360 U	350 U	380 U	50 J
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	140 J	360 U	350 U	380 U	360 U
50-32-8	Benzo(a)pyrene	660	ug/kg	160 J	360 U	350 U	380 U	360 U
218-01-9	Chrysene	90000	ug/kg	340 J	360 U	350 U	380 U	360 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	340 U	360 U	350 U	380 U	360 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	84 J	360 U	350 U	380 U	360 U

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS
56-55-3	Benzo(a)anthracene	900	ug/kg
205-99-2	Benzo(b)fluoranthene	900	ug/kg
207-08-9	Benzo(k)fluoranthene	9000	ug/kg
50-32-8	Benzo(a)pyrene	660	ug/kg
218-01-9	Chrysene	90000	ug/kg
53-70-3	Dibenz(a,h)anthracene	660	ug/kg
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

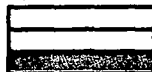
D - Diluted Sample Results

Legend

Confirmation Sample >

Documentation Sample below Cleanup Goals >

Documentation Sample above Cleanup Goals >



502119

Confirmation/Documentation Sample Results for the South Area - S2

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	11 (continued)				
				RUSTIC-S6207C-D	RUSTIC-S6207D	RUSTIC-S6207E	RUSTIC-S6207F	RUSTIC-S6207G
				47 to 49 ft. MSL	45 to 47 ft. MSL	43 to 45 ft. MSL	41 to 43 ft. MSL	39 to 41 ft. MSL
				4 to 6 ft. BGS	6 to 8 ft. BGS	8 to 10 ft. BGS	10 to 12 ft. BGS	12 to 14 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	39 J	330 U	360 U	420 U	350 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	91 J	330 U	360 U	420 U	350 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	380 U	330 U	360 U	420 U	350 U
50-32-8	Benzo(a)pyrene	660	ug/kg	43 J	330 U	360 U	420 U	350 U
218-01-9	Chrysene	90000	ug/kg	49 J	330 U	360 U	420 U	350 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	380 U	330 U	360 U	420 U	350 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	380 U	330 U	360 U	420 U	350 U

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS
56-55-3	Benzo(a)anthracene	900	ug/kg
205-99-2	Benzo(b)fluoranthene	900	ug/kg
207-08-9	Benzo(k)fluoranthene	9000	ug/kg
50-32-8	Benzo(a)pyrene	660	ug/kg
218-01-9	Chrysene	90000	ug/kg
53-70-3	Dibenz(a,h)anthracene	660	ug/kg
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

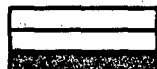
D - Diluted Sample Results

Legend

Confirmation Sample >

Documentation Sample below Cleanup Goals >

Documentation Sample above Cleanup Goals >



502120

Confirmation/Documentation Sample Results for the South Area - S2

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	12							
				RUSTIC-S6200A	RUSTIC-S6200B	RUSTIC-S6200C	RUSTIC-S6200D	RUSTIC-S6200E	RUSTIC-S6200E-D	RUSTIC-S6200F	RUSTIC-S6200G
				51 to 52.9 ft. MSL 0.9 to 2 ft. BGS	49 to 51 ft. MSL 2 to 4 ft. BGS	47 to 49 ft. MSL 4 to 6 ft. BGS	45 to 47 ft. MSL 6 to 8 ft. BGS	43 to 45 ft. MSL 8 to 10 ft. BGS	43 to 45 ft. MSL 8 to 10 ft. BGS	41 to 43 ft. MSL 10 to 12 ft. BGS	39 to 41 ft. MSL 12 to 14 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	370 U	340 U	350 U	390 U	350 U	360 U	440 U	450 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	370 U	340 U	350 U	390 U	350 U	380 U	440 U	450 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	370 U	340 U	350 U	390 U	350 U	360 U	440 U	450 U
50-32-8	Benzo(a)pyrene	660	ug/kg	370 U	340 U	350 U	390 U	350 U	360 U	440 U	450 U
218-01-9	Chrysene	90000	ug/kg	370 U	340 U	350 U	390 U	350 U	380 U	440 U	450 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	370 U	340 U	350 U	390 U	350 U	380 U	440 U	450 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	370 U	340 U	350 U	390 U	350 U	360 U	440 U	450 U

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS
56-55-3	Benzo(a)anthracene	900	ug/kg
205-99-2	Benzo(b)fluoranthene	900	ug/kg
207-08-9	Benzo(k)fluoranthene	9000	ug/kg
50-32-8	Benzo(a)pyrene	660	ug/kg
218-01-9	Chrysene	90000	ug/kg
53-70-3	Dibenz(a,h)anthracene	660	ug/kg
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

D - Diluted Sample Results

Legend

Confirmation Sample >

Documentation Sample below Cleanup Goals >

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502121

Confirmation/Documentation Sample Results for the South Area - S2

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	13					
				RUSTIC-S6201A	RUSTIC-S6201B	RUSTIC-S6201C	RUSTIC-S6201D	RUSTIC-S6201E	RUSTIC-S6201F
				51 to 52.5 ft. MSL	49 to 51 ft. MSL	47 to 49 ft. MSL	45 to 47 ft. MSL	43 to 45 ft. MSL	41 to 43 ft. MSL
				0.5 to 2 ft. BGS	2 to 4 ft. BGS	4 to 6 ft. BGS	6 to 8 ft. BGS	8 to 10 ft. BGS	10 to 12 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	350 U	340 U	360 U	350 U	360 U	30000 D
205-99-2	Benzo(b)fluoranthene	900	ug/kg	46 J	340 U	360 U	350 U	360 U	21000 D
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	350 U	340 U	360 U	350 U	360 U	8300 D
50-32-8	Benzo(a)pyrene	660	ug/kg	350 U	340 U	360 U	350 U	360 U	14000 D
218-01-9	Chrysene	90000	ug/kg	350 U	340 U	360 U	350 U	360 U	1500
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	350 U	340 U	360 U	350 U	360 U	4000 D
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	350 U	340 U	360 U	350 U	360 U	8800 D

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS
56-55-3	Benzo(a)anthracene	900	ug/kg
205-99-2	Benzo(b)fluoranthene	900	ug/kg
207-08-9	Benzo(k)fluoranthene	9000	ug/kg
50-32-8	Benzo(a)pyrene	660	ug/kg
218-01-9	Chrysene	90000	ug/kg
53-70-3	Dibenz(a,h)anthracene	660	ug/kg
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

D - Diluted Sample Results

Legend

Confirmation Sample >

Documentation Sample below Cleanup Goals >

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502122

Confirmation/Documentation Sample Results for the South Area - S2

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	14							
				RUSTIC-S6202B	RUSTIC-S6202C	RUSTIC-S6202C-D	RUSTIC-S6202D	RUSTIC-S6202E	RUSTIC-S6202F	RUSTIC-S6202G	RUSTIC-S6202G-D
				49 to 51 ft. MSL	47 to 49 ft. MSL	47 to 49 ft. MSL	45 to 47 ft. MSL	43 to 45 ft. MSL	41 to 43 ft. MSL	39 to 41 ft. MSL	39 to 41 ft. MSL
				2 to 4 ft. BGS	4 to 6 ft. BGS	4 to 6 ft. BGS	6 to 8 ft. BGS	8 to 10 ft. BGS	10 to 12 ft. BGS	12 to 14 ft. BGS	12 to 14 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	380 U	350 U	340 U	360 U	350 U	370 U	4700	2500
205-99-2	Benzo(b)fluoranthene	900	ug/kg	380 U	350 U	340 U	380 U	350 U	370 U	2000	3600
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	380 U	350 U	340 U	380 U	350 U	370 U	1400	800
50-32-8	Benzo(a)pyrene	660	ug/kg	380 U	350 U	340 U	360 U	350 U	370 U	2000	1200
218-01-9	Chrysene	90000	ug/kg	380 U	350 U	340 U	360 U	350 U	370 U	4000	2200
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	380 U	350 U	340 U	380 U	350 U	370 U	170 J	110 J
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	380 U	350 U	340 U	360 U	350 U	370 U	480	300 J

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS
56-55-3	Benzo(a)anthracene	900	ug/kg
205-99-2	Benzo(b)fluoranthene	900	ug/kg
207-08-9	Benzo(k)fluoranthene	9000	ug/kg
50-32-8	Benzo(a)pyrene	660	ug/kg
218-01-9	Chrysene	90000	ug/kg
53-70-3	Dibenz(a,h)anthracene	660	ug/kg
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

D - Diluted Sample Results

Legend

Confirmation Sample >

Documentation Sample below Cleanup Goals >

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502123

Confirmation/Documentation Sample Results for the South Area - S2

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	15							
				RUSTIC-S6203A	RUSTIC-S6203B	RUSTIC-S6203C	RUSTIC-S6203C-D	RUSTIC-S6203D	RUSTIC-S6203E	RUSTIC-S6203F	RUSTIC-S6203G
				51 to 52.5 ft. MSL 0.5 to 2 ft. BGS	49 to 51 ft. MSL 2 to 4 ft. BGS	47 to 49 ft. MSL 4 to 6 ft. BGS	47 to 49 ft. MSL 4 to 6 ft. BGS	45 to 47 ft. MSL 6 to 8 ft. BGS	43 to 45 ft. MSL 8 to 10 ft. BGS	41 to 43 ft. MSL 10 to 12 ft. BGS	39 to 41 ft. MSL 12 to 14 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	370 J	360 U	350 U	360 U	350 U	360 U	370 U	410 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	710	38 J	40 J	360 U	350 U	360 U	370 U	410 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	300 J	360 U	350 U	360 U	350 U	360 U	370 U	410 U
50-32-8	Benzo(a)pyrene	660	ug/kg	400	360 U	350 U	360 U	350 U	360 U	370 U	410 U
218-01-9	Chrysene	90000	ug/kg	420	360 U	350 U	360 U	350 U	360 U	370 U	410 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	80 J	360 U	350 U	360 U	350 U	360 U	370 U	410 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	250 J	360 U	350 U	360 U	350 U	360 U	370 U	410 U

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS
56-55-3	Benzo(a)anthracene	900	ug/kg
205-99-2	Benzo(b)fluoranthene	900	ug/kg
207-08-9	Benzo(k)fluoranthene	9000	ug/kg
50-32-8	Benzo(a)pyrene	660	ug/kg
218-01-9	Chrysene	90000	ug/kg
53-70-3	Dibenz(a,h)anthracene	660	ug/kg
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

D - Diluted Sample Results

Legend

Confirmation Sample >

Documentation Sample below Cleanup Goals >

Documentation Sample above Cleanup Goals >



502124

Confirmation/Documentation Sample Results for the South Area - S2

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	16							
				RUSTIC-S6204A	RUSTIC-S6204B	RUSTIC-S6204C	RUSTIC-S6204D	RUSTIC-S6204E	RUSTIC-S6204E-D	RUSTIC-S6204F	RUSTIC-S6204G
				51 to 52.5 ft. MSL	49 to 51 ft. MSL	47 to 49 ft. MSL	45 to 47 ft. MSL	43 to 45 ft. MSL	43 to 45 ft. MSL	41 to 43 ft. MSL	39 to 41 ft. MSL
				0.5 to 2 ft. BGS	2 to 4 ft. BGS	4 to 6 ft. BGS	6 to 8 ft. BGS	8 to 10 ft. BGS	8 to 10 ft. BGS	10 to 12 ft. BGS	12 to 14 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	370 J	370 U	350 U	340 U	340 U	350 U	350 U	420 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	710	370 U	32 J	340 U	340 U	350 U	350 U	420 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	300 J	370 U	350 U	340 U	340 U	350 U	350 U	420 U
50-32-8	Benzo(e)pyrene	660	ug/kg	400	370 U	350 U	340 U	340 U	350 U	350 U	420 U
218-01-9	Chrysene	90000	ug/kg	420	370 U	350 U	340 U	340 U	350 U	350 U	420 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	80 J	370 U	350 U	340 U	340 U	350 U	350 U	420 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	250 J	370 U	350 U	340 U	340 U	350 U	350 U	420 U

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS
56-55-3	Benzo(a)anthracene	900	ug/kg
205-99-2	Benzo(b)fluoranthene	900	ug/kg
207-08-9	Benzo(k)fluoranthene	9000	ug/kg
50-32-8	Benzo(e)pyrene	660	ug/kg
218-01-9	Chrysene	90000	ug/kg
53-70-3	Dibenz(a,h)anthracene	660	ug/kg
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

D - Diluted Sample Results

Legend

Confirmation Sample >

Documentation Sample below Cleanup Goals >

Documentation Sample above Cleanup Goals >



502125

Confirmation/Documentation Sample Results for the South Area - S2

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	16						
				RUSTIC-S6205A	RUSTIC-S6205B	RUSTIC-S6205C	RUSTIC-S6205D	RUSTIC-S6205E	RUSTIC-S6205F	RUSTIC-S6205G
				51 to 52.5 ft. MSL	49 to 51 ft. MSL	47 to 49 ft. MSL	45 to 47 ft. MSL	43 to 45 ft. MSL	41 to 43 ft. MSL	39 to 41 ft. MSL
				0.5 to 2 ft. BGS	2 to 4 ft. BGS	4 to 6 ft. BGS	6 to 8 ft. BGS	8 to 10 ft. BGS	10 to 12 ft. BGS	12 to 14 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	290 J	380 U	89 J	43 J	340 U	350 U	17800
205-99-2	Benzo(b)fluoranthene	900	ug/kg	590	56 J	250 J	77 J	340 U	350 U	800
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	290 J	380 U	130 J	35 J	340 U	350 U	460
50-32-8	Benzo(a)pyrene	680	ug/kg	360 J	43 J	200 J	60 J	340 U	350 U	620
218-01-9	Chrysene	90000	ug/kg	340 J	380 U	110 J	41 J	340 U	350 U	5600
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	66 J	380 U	37 J	350 U	340 U	350 U	57 J
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	180 J	380 U	110 J	350 U	340 U	350 U	180 J

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS
56-55-3	Benzo(a)anthracene	900	ug/kg
205-99-2	Benzo(b)fluoranthene	900	ug/kg
207-08-9	Benzo(k)fluoranthene	9000	ug/kg
50-32-8	Benzo(a)pyrene	680	ug/kg
218-01-9	Chrysene	90000	ug/kg
53-70-3	Dibenz(a,h)anthracene	660	ug/kg
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

D - Diluted Sample Results

Legend

Confirmation Sample >

Documentation Sample below Cleanup Goals >

Documentation Sample above Cleanup Goals >



502126

Confirmation/Documentation Sample Results for the South Area - S2

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	17							
				RUSTIC-S6206B	RUSTIC-S6206C	RUSTIC-S6206C-D	RUSTIC-S6206D	RUSTIC-S6206E	RUSTIC-S6206F	RUSTIC-S6206G	RUSTIC-S6206G-D
				49 to 51 ft. MSL 2 to 4 ft. BGS	47 to 49 ft. MSL 4 to 6 ft. BGS	47 to 49 ft. MSL 4 to 6 ft. BGS	45 to 47 ft. MSL 6 to 8 ft. BGS	43 to 45 ft. MSL 8 to 10 ft. BGS	41 to 43 ft. MSL 10 to 12 ft. BGS	39 to 41 ft. MSL 12 to 14 ft. BGS	39 to 41 ft. MSL 12 to 14 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	380 U	53 J	51 J	340 U	350 U	340 U	16000 D	11000 J
205-99-2	Benzo(b)fluoranthene	900	ug/kg	380 U	75 J	79 J	340 U	350 U	340 U	13000 D	9700 J
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	380 U	350 U	35 J	340 U	350 U	340 U	4500	3800
50-32-8	Benzo(a)pyrene	660	ug/kg	380 U	38 J	38 J	340 U	350 U	340 U	5700 D	6200 J
218-01-9	Chrysene	90000	ug/kg	380 U	72 J	57 J	340 U	350 U	340 U	13000 D	10000 J
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	380 U	350 U	350 U	340 U	350 U	340 U	480	520 J
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	380 U	350 U	350 U	340 U	350 U	340 U	11000 J	1500 J

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS
56-55-3	Benzo(a)anthracene	900	ug/kg
205-99-2	Benzo(b)fluoranthene	900	ug/kg
207-08-9	Benzo(k)fluoranthene	9000	ug/kg
50-32-8	Benzo(a)pyrene	660	ug/kg
218-01-9	Chrysene	90000	ug/kg
53-70-3	Dibenz(a,h)anthracene	660	ug/kg
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

D - Diluted Sample Results

Legend

Confirmation Sample >

Documentation Sample below Cleanup Goals >

Documentation Sample above Cleanup Goals >



502127

Confirmation/Documentation Sample Results for the South Area - S2

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	17						
				RUSTIC-S6207B	RUSTIC-S6207C	RUSTIC-S6207C-D	RUSTIC-S6207D	RUSTIC-S6207E	RUSTIC-S6207F	RUSTIC-S6207G
				49 to 51 ft. MSL 2 to 4 ft. BGS	47 to 49 ft. MSL 4 to 6 ft. BGS	47 to 49 ft. MSL 4 to 6 ft. BGS	45 to 47 ft. MSL 6 to 8 ft. BGS	43 to 45 ft. MSL 8 to 10 ft. BGS	41 to 43 ft. MSL 10 to 12 ft. BGS	39 to 41 ft. MSL 12 to 14 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	380 U	380 U	38 J	330 U	360 U	420 U	350 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	380 U	50 J	91 J	330 U	360 U	420 U	350 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	380 U	360 U	380 U	330 U	360 U	420 U	350 U
50-32-8	Benzo(a)pyrene	660	ug/kg	380 U	360 U	43 J	330 U	360 U	420 U	350 U
218-01-9	Chrysene	90000	ug/kg	380 U	360 U	49 J	330 U	360 U	420 U	350 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	380 UJ	360 UJ	380 UJ	330 UJ	360 UJ	420 UJ	350 UJ
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	380 UJ	360 UJ	380 UJ	330 UJ	360 UJ	420 UJ	350 UJ

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS
56-55-3	Benzo(a)anthracene	900	ug/kg
205-99-2	Benzo(b)fluoranthene	900	ug/kg
207-08-9	Benzo(k)fluoranthene	9000	ug/kg
50-32-8	Benzo(a)pyrene	660	ug/kg
218-01-9	Chrysene	90000	ug/kg
53-70-3	Dibenz(a,h)anthracene	660	ug/kg
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

D - Diluted Sample Results

Legend

Confirmation Sample >

Documentation Sample below Cleanup Goals >

Documentation Sample above Cleanup Goals >



502128

Confirmation/Documentation Sample Results for the South Area - S3

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS
56-55-3	Benzo(a)anthracene	900	ug/kg
205-99-2	Benzo(b)fluoranthene	900	ug/kg
207-08-9	Benzo(k)fluoranthene	9000	ug/kg
50-32-8	Benzo(a)pyrene	660	ug/kg
218-01-9	Chrysene	90000	ug/kg
53-70-3	Dibenz(a,h)anthracene	660	ug/kg
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	1	2	3	4	5
				RUSTIC-S6564B	RUSTIC-S6565B	RUSTIC-S6585B	RUSTIC-S6586B	RUSTIC-S6587B
				49 to 51 ft. MSL	49 to 51 ft. MSL	49 to 51 ft. MSL	49 to 51 ft. MSL	49 to 51 ft. MSL
				2 to 4 ft. BGS	2 to 4 ft. BGS	2 to 4 ft. BGS	2 to 4 ft. BGS	2 to 4 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	360 U	370 U	360 UJ	360 U	94 J
205-99-2	Benzo(b)fluoranthene	900	ug/kg	360 U	370 U	360 UJ	360 U	200 J
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	360 U	370 U	360 UJ	360 U	86 J
50-32-8	Benzo(a)pyrene	660	ug/kg	360 U	370 U	360 UJ	360 U	370 U
218-01-9	Chrysene	90000	ug/kg	360 U	370 U	360 UJ	360 U	130 J
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	360 U	370 U	360 U	360 U	370 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	360 U	370 U	360 U	360 U	370 U

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

D - Diluted Sample Results

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502129

Confirmation/Documentation Sample Results for the North Area - N1

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	1	2	3
				RUSTIC-S6456A	RUSTIC-S6408A	RUSTIC-S6455A
				49 to 49.5 ft. MSL	49 to 50.5 ft. MSL	49 to 49.5 ft. MSL
				1.5 to 2 ft. BGS	0.5 to 2 ft. BGS	1.5 to 2 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	480 U	320 J	350 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	480 U	350 J	350 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	480 U	180 J	350 U
50-32-8	Benzo(a)pyrene	860	ug/kg	480 U	220 J	350 U
218-01-9	Chrysene	90000	ug/kg	480 U	320 J	350 U
53-70-3	Dibenz(a,h)anthracene	860	ug/kg	480 U	52 J	350 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	480 U	170 J	350 U

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	1	2	3
				RUSTIC-S6400B	RUSTIC-S6400B-D	RUSTIC-S6409B
				47 to 49 ft. MSL	47 to 49 ft. MSL	47 to 49 ft. MSL
				2 to 4 ft. BGS	2 to 4 ft. BGS	2 to 4 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	370 U	340 U	340 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	370 U	340 U	340 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	370 U	340 U	340 U
50-32-8	Benzo(a)pyrene	860	ug/kg	370 U	340 U	340 U
218-01-9	Chrysene	90000	ug/kg	370 U	340 U	340 U
53-70-3	Dibenz(a,h)anthracene	860	ug/kg	370 U	340 U	340 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	370 U	340 U	340 U

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

D - Diluted Sample Results

Legend

Confirmation Sample >

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502130

Confirmation/Documentation Sample Results for the North Area - N1

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS
56-55-3	Benzo(a)anthracene	900	ug/kg
205-99-2	Benzo(b)fluoranthene	900	ug/kg
207-08-9	Benzo(k)fluoranthene	9000	ug/kg
50-32-8	Benzo(a)pyrene	660	ug/kg
218-01-9	Chrysene	90000	ug/kg
53-70-3	Dibenz(a,h)anthracene	660	ug/kg
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	4		5	
				RUSTIC-S6454A		RUSTIC-S6454A-D	
				47 to 49 ft. MSL		47 to 49 ft. MSL	
				2 to 4 ft. BGS		47.75 ft. MSL	
56-55-3	Benzo(a)anthracene	900	ug/kg	350	U	350	U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	350	U	350	U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	350	U	350	U
50-32-8	Benzo(a)pyrene	660	ug/kg	350	U	350	U
218-01-9	Chrysene	90000	ug/kg	350	U	350	U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	350	U	350	U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	350	U	350	U

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

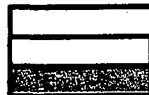
D - Diluted Sample Results

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502131

Confirmation/Documentation Sample Results for the North Area - N2

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	1	2	3
				RUSTIC-S6400B	RUSTIC-S6400B-D	RUSTIC-S6409B
				47 to 49 ft. MSL	47 to 49 ft. MSL	47 to 49 ft. MSL
				2 to 4 ft. BGS	2 to 4 ft. BGS	2 to 4 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	370 U	340 U	340 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	370 U	340 U	340 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	370 U	340 U	340 U
50-32-8	Benzo(a)pyrene	860	ug/kg	370 U	340 U	340 U
218-01-9	Chrysene	90000	ug/kg	370 U	340 U	340 U
53-70-3	Dibenz(a,h)anthracene	860	ug/kg	370 U	340 U	340 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	370 U	340 U	340 U

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	1	2	3	4
				RUSTIC-S6401A	RUSTIC-S6400C	RUSTIC-S6402A	RUSTIC-S6402A-D
				45 to 47 ft. MSL	45 to 47 ft. MSL	45 to 47 ft. MSL	45 to 47 ft. MSL
				4 to 6 ft. BGS	4 to 6 ft. BGS	4 to 6 ft. BGS	4 to 6 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	350 U	350 U	82 J	60 J
205-99-2	Benzo(b)fluoranthene	900	ug/kg	350 U	350 U	81 J	63 J
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	350 U	350 U	39 J	360 U
50-32-8	Benzo(a)pyrene	860	ug/kg	350 U	350 U	47 J	360 U
218-01-9	Chrysene	90000	ug/kg	350 U	350 U	98 J	68 J
53-70-3	Dibenz(a,h)anthracene	860	ug/kg	350 U	350 U	350 U	360 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	350 U	350 U	350 U	360 U

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

D - Diluted Sample Results

Legend

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Confirmation/Documentation Sample Results for the North Area - N3

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	1		2		3	
				RUSTIC-S6409B	RUSTIC-S6409C	RUSTIC-S6402A	RUSTIC-S6402A-D	FCS-OU3-0158-NY2-W3-44.0-7	
				47 to 49 ft. MSL	45 to 47 ft. MSL	45 to 47 ft. MSL	45 to 47 ft. MSL	44 ft. MSL	
				2 to 4 ft. BGS	4 to 6 ft. BGS	4 to 6 ft. BGS	4 to 6 ft. BGS	7 ft. BGS	
56-55-3	Benzo(a)anthracene	900	ug/kg	340 U	730	82 J	60 J	619	
205-99-2	Benzo(b)fluoranthene	900	ug/kg	340 U	800	81 J	63 J	627	
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	340 U	410	39 J	360 U	297	
50-32-8	Benzo(a)pyrene	660	ug/kg	340 U	570	47 J	380 U	381	
218-01-9	Chrysene	90000	ug/kg	340 U	660	98 J	68 J	552	
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	340 U	84 J	350 U	360 U	89	
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	340 U	250 J	350 U	360 U	224	

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	1	2	3	4	5
				RUSTIC-S6402B	RUSTIC-S6403B	RUSTIC-S6404D	RUSTIC-S6405D	RUSTIC-S6406D
				43 to 45 ft. MSL	43 to 45 ft. MSL	43 to 45 ft. MSL	43 to 45 ft. MSL	43 to 45 ft. MSL
				6 to 8 ft. BGS	6 to 8 ft. BGS	6 to 8 ft. BGS	6 to 8 ft. BGS	6 to 8 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	340 U	350 U	350 U	350 U	340 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	340 U	350 U	350 U	350 U	340 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	340 U	350 U	350 U	350 U	340 U
50-32-8	Benzo(a)pyrene	660	ug/kg	340 U	350 U	350 U	350 U	340 U
218-01-9	Chrysene	90000	ug/kg	340 U	350 U	350 U	350 U	340 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	340 U	350 U	350 U	350 U	340 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	340 U	350 U	350 U	350 U	340 U

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

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Confirmation/Documentation Sample Results for the North Area - N3

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS
56-55-3	Benzo(a)anthracene	900	ug/kg
205-99-2	Benzo(b)fluoranthene	900	ug/kg
207-08-9	Benzo(k)fluoranthene	9000	ug/kg
50-32-8	Benzo(a)pyrene	660	ug/kg
218-01-9	Chrysene	90000	ug/kg
53-70-3	Dibenz(a,h)anthracene	660	ug/kg
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	6	7	8	9	10
				RUSTIC-S6407D	RUSTIC-S6410D	RUSTIC-S6412D	RUSTIC-S6413D	RUSTIC-S6414B
				43 to 45 ft. MSL	43 to 45 ft. MSL	43 to 45 ft. MSL	43 to 45 ft. MSL	43 to 45 ft. MSL
				6 to 8 ft. BGS	6 to 8 ft. BGS	6 to 8 ft. BGS	6 to 8 ft. BGS	6 to 8 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	350 U	350 U	350 U	340 U	350 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	350 U	350 U	350 U	340 U	350 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	350 U	350 U	350 U	340 U	350 U
50-32-8	Benzo(a)pyrene	660	ug/kg	350 U	350 U	350 U	340 U	350 U
218-01-9	Chrysene	90000	ug/kg	350 U	350 U	350 U	340 U	350 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	350 U	350 U	350 U	340 U	350 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	350 U	350 U	350 U	340 U	350 U

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

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Confirmation/Documentation Sample Results for the North Area - N3

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS
56-55-3	Benzo(a)anthracene	900	ug/kg
205-99-2	Benzo(b)fluoranthene	900	ug/kg
207-08-9	Benzo(k)fluoranthene	9000	ug/kg
50-32-8	Benzo(a)pyrene	660	ug/kg
218-01-9	Chrysene	90000	ug/kg
53-70-3	Dibenz(a,h)anthracene	660	ug/kg
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	11
				RUSTIC-S6415D
				43 to 45 ft. MSL
				6 to 8 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	37 J
205-99-2	Benzo(b)fluoranthene	900	ug/kg	360 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	360 U
50-32-8	Benzo(a)pyrene	660	ug/kg	360 U
218-01-9	Chrysene	90000	ug/kg	360 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	360 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	360 U

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

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D - Diluted Sample Results

Legend

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Confirmation/Documentation Sample Results for the North Area - N4

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	1		2		
				RUSTIC-S6416B	RUSTIC-S6416C	RUSTIC-S6454A	RUSTIC-S6454A-D	RUSTIC-S6454B
				46 to 48 ft. MSL	44 to 48 ft. MSL	46 to 48 ft. MSL	46 to 48 ft. MSL	44 to 48 ft. MSL
				2 to 4 ft. BGS	4 to 6 ft. BGS	2 to 4 ft. BGS	2 to 4 ft. BGS	4 to 6 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	340 U	78 J	350 U	350 U	360 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	340 U	100 J	350 U	350 U	360 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	340 U	81 J	350 U	350 U	360 U
50-32-8	Benzo(a)pyrene	660	ug/kg	340 U	59 J	350 U	350 U	360 U
218-01-9	Chrysene	90000	ug/kg	340 U	98 J	350 U	350 U	360 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	340 U	350 U	350 U	350 U	360 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	340 U	42 J	350 U	350 U	360 U

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	1	2	3	4
				RUSTIC-S6417D	RUSTIC-S6425C	RUSTIC-S6429C	RUSTIC-S6429C-D
				42 to 44 ft. MSL	42 to 44 ft. MSL	43 to 45 ft. MSL	43 to 45 ft. MSL
				6 to 8 ft. BGS	6 to 8 ft. BGS	6 to 8 ft. BGS	6 to 8 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	360 U	350 U	330 U	330 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	360 U	350 U	330 U	330 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	360 U	350 U	330 U	330 U
50-32-8	Benzo(a)pyrene	660	ug/kg	360 U	350 U	330 U	330 U
218-01-9	Chrysene	90000	ug/kg	360 U	350 U	330 U	330 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	360 U	350 U	330 U	330 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	360 U	350 U	330 U	330 U

*NOTE: All data has been validated

Data Qualifiers:
 ND - No Data
 U - Non Detect
 J - Estimated Value
 D - Diluted Sample Results

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Confirmation/Documentation Sample Results for the North Area - N4

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	3			4	
				RUSTIC-S6424A	RUSTIC-S6424B	RUSTIC-S6424C	RUSTIC-S6425A	RUSTIC-S6425B
				48 to 49.5 ft. MSL	46 to 48 ft. MSL	44 to 46 ft. MSL	46 to 48 ft. MSL	44 to 46 ft. MSL
				0.5 to 2 ft. BGS	2 to 4 ft. BGS	4 to 6 ft. BGS	2 to 4 ft. BGS	4 to 6 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	400 U	360 U	350 U	350 U	360 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	400 U	360 U	350 U	350 U	360 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	400 U	360 U	350 U	350 U	360 U
50-32-8	Benzo(a)pyrene	660	ug/kg	400 U	360 U	350 U	350 U	360 U
218-01-9	Chrysene	90000	ug/kg	400 U	360 U	350 U	350 U	360 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	400 U	360 U	350 U	350 U	360 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	400 U	360 U	350 U	350 U	360 U

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	5	6
				FCS-OU3-0134-NV1-F-43.9-7	FCS-OU3-0135-NW1-F-44.0-7
				43.9 ft. MSL	44.0 ft. MSL
				7.1 ft. BGS	7.0 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	260	67 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	350	67 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	67 U	67 U
50-32-8	Benzo(a)pyrene	660	ug/kg	222	67 U
218-01-9	Chrysene	90000	ug/kg	229	67 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	67 U	67 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	106	67 U

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

D - Diluted Sample Results

Legend

Confirmation Sample >

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Confirmation/Documentation Sample Results for the North Area - N4

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	5		6	
				RUSTIC-S6426A	RUSTIC-S6426B	RUSTIC-S6427A	RUSTIC-S6427B
				46 to 48 ft. MSL	44 to 46 ft. MSL	46 to 48 ft. MSL	44 to 46 ft. MSL
				2 to 4 ft. BGS	4 to 6 ft. BGS	2 to 4 ft. BGS	4 to 6 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	360 U	350 U	350 U	110 J
205-99-2	Benzo(b)fluoranthene	900	ug/kg	360 U	50 J	350 U	100 J
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	360 U	350 U	350 U	430 U
50-32-8	Benzo(a)pyrene	660	ug/kg	360 U	350 U	350 U	56 J
218-01-9	Chrysene	90000	ug/kg	360 U	37 J	350 U	93 J
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	360 U	350 U	350 U	430 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	360 U	350 U	350 U	430 U

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS
56-55-3	Benzo(a)anthracene	900	ug/kg
205-99-2	Benzo(b)fluoranthene	900	ug/kg
207-08-9	Benzo(k)fluoranthene	9000	ug/kg
50-32-8	Benzo(a)pyrene	660	ug/kg
218-01-9	Chrysene	90000	ug/kg
53-70-3	Dibenz(a,h)anthracene	660	ug/kg
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg

*NOTE: All data has been validated

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Confirmation/Documentation Sample Results for the North Area - N4

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	7		8	
				RUSTIC-S6428A	RUSTIC-S6428B	RUSTIC-S6429A	RUSTIC-S6429B
				46 to 48 ft. MSL	44 to 46 ft. MSL	46 to 48 ft. MSL	44 to 46 ft. MSL
				2 to 4 ft. BGS	4 to 6 ft. BGS	2 to 4 ft. BGS	4 to 6 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	360 U	350 U	370 U	100 J
205-99-2	Benzo(b)fluoranthene	900	ug/kg	360 U	350 U	370 U	130 J
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	360 U	350 U	370 U	55 J
50-32-8	Benzo(a)pyrene	660	ug/kg	360 U	350 U	370 U	73 J
218-01-9	Chrysene	90000	ug/kg	360 U	350 U	370 U	120 J
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	360 U	350 U	370 U	350 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	360 U	350 U	370 U	38 J

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS
56-55-3	Benzo(a)anthracene	900	ug/kg
205-99-2	Benzo(b)fluoranthene	900	ug/kg
207-08-9	Benzo(k)fluoranthene	9000	ug/kg
50-32-8	Benzo(a)pyrene	660	ug/kg
218-01-9	Chrysene	90000	ug/kg
53-70-3	Dibenz(a,h)anthracene	660	ug/kg
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

D - Diluted Sample Results

Legend

Confirmation Sample >

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Confirmation/Documentation Sample Results for the North Area - N5

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	1	2	3
				FCS-OU3-0156-NY2-W1-44.0-7	FCS-OU3-0157-NY2-W2-44.0-7	FCS-OU3-0158-NY2-W3-44.0-7
				44 ft. MSL	44 ft. MSL	44 ft. MSL
				7 ft. BGS	7 ft. BGS	7 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	67 U	67 U	619
205-99-2	Benzo(b)fluoranthene	900	ug/kg	67 U	67 U	627
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	67 U	67 U	297
50-32-8	Benzo(a)pyrene	660	ug/kg	67 U	67 U	381
218-01-9	Chrysene	90000	ug/kg	67 U	67 U	552
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	67 U	67 U	89
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	67 U	67 U	224

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	1
				RUSTIC-S6411E
				41 to 43 ft. MSL
				8 to 10 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	380 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	380 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	380 U
50-32-8	Benzo(a)pyrene	660	ug/kg	380 U
218-01-9	Chrysene	90000	ug/kg	380 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	380 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	380 U

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

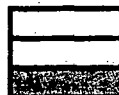
D - Diluted Sample Results

Legend

Confirmation Sample >

Documentation Sample below Cleanup Goals >

Documentation Sample above Cleanup Goals >



502140

Confirmation/Documentation Sample Results for the North Area - N6

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	1	
				RUSTIC-S6429C	RUSTIC-S6429C-D
				42 to 44 ft. MSL	42 to 44 ft. MSL
				6 to 8 ft. BGS	6 to 8 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	330 U	330 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	330 U	330 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	330 U	330 U
50-32-8	Benzo(a)pyrene	660	ug/kg	330 U	330 U
218-01-9	Chrysene	90000	ug/kg	330 U	330 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	330 U	330 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	330 U	330 U

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	1	2	3	4
				RUSTIC-S6050D	RUSTIC-S6430D	RUSTIC-S6430D-D	RUSTIC-S6429D
				40 to 42 ft. MSL	40 to 42 ft. MSL	40 to 42 ft. MSL	40 to 42 ft. MSL
				8 to 10 ft. BGS	8 to 10 ft. BGS	8 to 10 ft. BGS	8 to 10 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	190 J	78 J	190 J	330 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	240 J	120 J	330 J	330 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	84 J	49 J	180 J	330 U
50-32-8	Benzo(a)pyrene	660	ug/kg	130 J	63 J	190 J	330 U
218-01-9	Chrysene	90000	ug/kg	200 J	80 J	220 J	330 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	360 U	330 U	370 U	330 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	360 U	36 J	65 J	330 U

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

D - Diluted Sample Results

Legend

Confirmation Sample >

Documentation Sample below Cleanup Goals >

Documentation Sample above Cleanup Goals >



502141

Confirmation/Documentation Sample Results for the North Area - N6

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS
56-55-3	Benzo(a)anthracene	900	ug/kg
205-99-2	Benzo(b)fluoranthene	900	ug/kg
207-08-9	Benzo(k)fluoranthene	9000	ug/kg
50-32-8	Benzo(a)pyrene	660	ug/kg
218-01-9	Chrysene	90000	ug/kg
53-70-3	Dibenz(a,h)anthracene	660	ug/kg
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	5	
				RUSTIC-S6049D	RUSTIC-S6049D-D
				40 to 42 ft. MSL	40 to 42 ft. MSL
				8 to 10 ft. BGS	8 to 10 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	390 U	390 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	390 U	390 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	390 U	390 U
50-32-8	Benzo(a)pyrene	660	ug/kg	390 U	390 U
218-01-9	Chrysene	90000	ug/kg	390 U	390 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	390 U	390 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	390 U	390 U

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

D - Diluted Sample Results

Legend

Confirmation Sample >

Documentation Sample below Cleanup Goals >

Documentation Sample above Cleanup Goals >



502142

Confirmation/Documentation Sample Results for the North Area - N7

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	1	2	3	4	5
				RUSTIC-S6071A	RUSTIC-S6435A	RUSTIC-S6451A	RUSTIC-S6452A	RUSTIC-S6433A
				48 to 50 ft. MSL	48 to 49.5 ft. MSL	48 to 48.5 ft. MSL	48 to 49 ft. MSL	48 to 49.5 ft. MSL
				0 to 2 ft. BGS	0.5 to 2 ft. BGS	1.5 to 2 ft. BGS	1 to 2 ft. BGS	0.5 to 2 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	370 U	380 U	380 U	380 U	370 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	370 U	380 U	380 U	380 U	370 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	370 U	380 U	380 U	380 U	370 U
50-32-8	Benzo(a)pyrene	660	ug/kg	370 U	380 U	380 U	380 U	370 U
218-01-9	Chrysene	90000	ug/kg	370 U	380 U	380 U	380 U	370 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	370 U	380 U	380 U	380 U	370 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	370 U	380 U	380 U	380 U	370 U

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	1	2	3
				RUSTIC-S6072B	RUSTIC-S6432A	RUSTIC-S6434B
				46 to 48 ft. MSL	46 to 48 ft. MSL	46 to 48 ft. MSL
				2 to 4 ft. BGS	2 to 4 ft. BGS	2 to 4 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	370 U	380 U	48 J
205-99-2	Benzo(b)fluoranthene	900	ug/kg	370 U	380 U	92 J
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	370 U	380 U	39 J
50-32-8	Benzo(a)pyrene	660	ug/kg	370 U	380 U	38 J
218-01-9	Chrysene	90000	ug/kg	370 U	380 U	54 J
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	370 U	380 U	370 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	370 U	380 U	370 U

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

D - Diluted Sample Results

Legend

Confirmation Sample >

Documentation Sample below Cleanup Goals >

Documentation Sample above Cleanup Goals >



502143

Confirmation/Documentation Sample Results for the North Area - N7

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	6	
				RUSTIC-S6559A	
				48 to 50 ft. MSL	
				0 to 2 ft. BGS	
56-55-3	Benzo(a)anthracene	900	ug/kg	370	U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	370	U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	370	U
50-32-8	Benzo(a)pyrene	660	ug/kg	370	U
218-01-9	Chrysene	90000	ug/kg	370	U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	370	U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	370	U

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS
56-55-3	Benzo(a)anthracene	900	ug/kg
205-99-2	Benzo(b)fluoranthene	900	ug/kg
207-08-9	Benzo(k)fluoranthene	9000	ug/kg
50-32-8	Benzo(a)pyrene	660	ug/kg
218-01-9	Chrysene	90000	ug/kg
53-70-3	Dibenz(a,h)anthracene	660	ug/kg
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

D - Diluted Sample Results

Legend

Confirmation Sample >

Documentation Sample below Cleanup Goals >

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502144

Confirmation/Documentation Sample Results for the North Area - N8

SIDEWALL SAMPLES

CASE#	COMPOUND	ACG CRITERIA	UNITS
56-55-3	Benzo(a)anthracene	900	ug/kg
205-89-2	Benzo(b)fluoranthene	900	ug/kg
207-06-6	Benzo(k)fluoranthene	9000	ug/kg
50-32-6	Benzo(a)pyrene	660	ug/kg
218-01-9	Chrysene	80000	ug/kg
53-70-3	Dibenz(a,h)anthracene	660	ug/kg
183-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg

BOTTOM SAMPLES

CASE#	COMPOUND	ACG CRITERIA	UNITS	1	2	3	4	5	6	7
				RUSTIC-56077G	RUSTIC-56077H	RUSTIC-56086G	RUSTIC-56086H	RUSTIC-56093G	RUSTIC-56086F	RUSTIC-56067F
				38 to 40 ft. MSL 14 to 16 ft. BGS	38 to 36 ft. MSL 16 to 18 ft. BGS	38 to 40 ft. MSL 14 to 16 ft. BGS	38 to 36 ft. MSL 14 to 16 ft. BGS	38 to 40 ft. MSL 14 to 16 ft. BGS	40 to 42 ft. MSL 12 to 14 ft. BGS	40 to 42 ft. MSL 12 to 14 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	340 U	440 U	350 U	450	340 U	350 U	660
205-89-2	Benzo(b)fluoranthene	900	ug/kg	340 U	440 U	350 U	410	340 U	350 U	500
207-06-6	Benzo(k)fluoranthene	9000	ug/kg	340 U	440 U	350 U	150 J	340 U	350 U	250 J
50-32-6	Benzo(a)pyrene	660	ug/kg	340 U	440 U	350 U	260 J	340 U	350 U	400 U
218-01-9	Chrysene	80000	ug/kg	340 U	440 U	350 U	460	340 U	350 U	620
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	340 U	440 U	350 U	360 U	340 U	350 U	52 J
183-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	340 U	440 U	350 U	86 J	340 U	350 U	130 J

*NOTE: All data has been validated

Data Qualifiers:
 ND - No Data
 U - Non Detect
 J - Estimated Value
 D - Diluted Sample Results

Legend

Confirmation Sample >
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502145

Confirmation/Documentation Sample Results for the North Area - N9

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	1
				FCS-OU3-0108-NL1-W1-37.6-7
				37.6 ft. MSL
				13.4 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	129
205-99-2	Benzo(b)fluoranthene	900	ug/kg	155
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	87 U
50-32-8	Benzo(a)pyrene	660	ug/kg	83
218-01-9	Chrysene	90000	ug/kg	133
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	67 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	67 U

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	1
				RUSTIC-S6078F
				35 to 37 ft. MSL
				12 to 14 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	350 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	350 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	350 U
50-32-8	Benzo(a)pyrene	660	ug/kg	350 U
218-01-9	Chrysene	90000	ug/kg	350 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	350 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	350 U

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

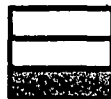
D - Diluted Sample Results

Legend

Confirmation Sample >

Documentation Sample below Cleanup Goals >

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502146

Confirmation/Documentation Sample Results for the North Area - N10

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	1
				FCS-OU3-0101-NM3-W1-37.6-7
				37.6 ft. MSL
				13.4 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	67 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	67 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	67 U
50-32-8	Benzo(a)pyrene	660	ug/kg	67 U
218-01-9	Chrysene	90000	ug/kg	67 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	67 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	67 U

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	1	2	3
				RUSTIC-S6075F	RUSTIC-S6080F	RUSTIC-S6085F
				35 to 37 ft. MSL	35 to 37 ft. MSL	35 to 37 ft. MSL
				12 to 14 ft. BGS	12 to 14 ft. BGS	12 to 14 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	340 U	350 U	180 J
205-99-2	Benzo(b)fluoranthene	900	ug/kg	340 U	350 U	120 J
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	340 U	350 U	48 J
50-32-8	Benzo(a)pyrene	660	ug/kg	340 U	350 U	73 J
218-01-9	Chrysene	90000	ug/kg	340 U	350 U	150 J
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	340 U	350 U	340 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	340 U	350 U	340 U

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

D - Diluted Sample Results

Legend

Confirmation Sample >

Documentation Sample below Cleanup Goals >

Documentation Sample above Cleanup Goals >



502147

Confirmation/Documentation Sample Results for the North Area - N11

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	1	2	3	4
				FCS-OU3-0105-NO2-W1-37.0-7	FCS-OU3-0102-NO3-W1-38.9-7	FCS-OU3-0099-NN4-W1-37.0-7	FCS-OU3-9005-NN4-W1-37.0-7
				37.0 ft. MSL	38.9 ft. MSL	37.0 ft. MSL	37.0 ft. MSL
				14.0 ft. BGS	14.1 ft. BGS	14.0 ft. BGS	14.0 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	67 U	67 U	67 U	67 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	67 U	67 U	67 U	67 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	67 U	67 U	67 U	67 U
50-32-8	Benzo(a)pyrene	660	ug/kg	67 U	67 U	67 U	67 U
218-01-9	Chrysene	90000	ug/kg	67 U	67 U	67 U	67 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	67 U	67 U	67 U	67 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	67 U	67 U	67 U	67 U

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	1	2	3	4	5
				Rustic-S6079G	Rustic-S6086G	Rustic-S6087G	Rustic-S6088H	Rustic-S6089H
				33 to 35 ft. MSL	33 to 35 ft. MSL	33 to 35 ft. MSL	31 to 33 ft. MSL	31 to 33 ft. MSL
				14 to 16 ft. BGS	14 to 16 ft. BGS	14 to 16 ft. BGS	16 to 18 ft. BGS	16 to 18 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	83 J	360 U	100 J	12000 DJ	7700
205-99-2	Benzo(b)fluoranthene	900	ug/kg	35 J	360 U	67 J	12000 E	3900
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	350 U	360 U	38 J	3500	5800
50-32-8	Benzo(a)pyrene	660	ug/kg	350 U	360 U	57 J	5600 D	32000
218-01-9	Chrysene	90000	ug/kg	60 J	360 U	86 J	11000 D	600 J
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	350 U	360 U	360 U	518	66000 D
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	350 U	360 U	360 U		20000 D

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

D - Diluted Sample Results

Legend

Confirmation Sample >

Documentation Sample below Cleanup Goals >

Documentation Sample above Cleanup Goals >



502148

Confirmation/Documentation Sample Results for the North Area - N11

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	5	6	7	8
				FCS-OU3-0107-NM2-W2-37.0-7	FCS-OU3-0098-NL2-W1-35.5-7	FCS-OU3-0108-NL1-W1-37.6-7	FCS-OU3-0101-NM3-W1-37.6-7
				37.0 ft. MSL	35.5 ft. MSL	37.6 ft. MSL	37.6 ft. MSL
				14.0 ft. BGS	15.5 ft. BGS	13.4 ft. BGS	13.4 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	67 U	67 U	129	67 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	67 U	67 U	155	67 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	67 U	67 U	67 U	67 U
50-32-8	Benzo(a)pyrene	660	ug/kg	67 U	67 U	83	67 U
218-01-9	Chrysene	90000	ug/kg	67 U	67 U	133	67 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	67 U	67 U	67 U	67 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	67 U	67 U	67 U	67 U

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	6	7	8
				Rustic-S6095G	Rustic-S6096G	Rustic-S6076G
				33 to 35 ft. MSL	33 to 35 ft. MSL	33 to 35 ft. MSL
				14 to 16 ft. BGS	14 to 16 ft. BGS	14 to 16 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	50000	63000	79 J
205-99-2	Benzo(b)fluoranthene	900	ug/kg	32000	34000	49 J
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	17000 J	15000 J	350 U
50-32-8	Benzo(a)pyrene	660	ug/kg	26000	27000	350 U
218-01-9	Chrysene	90000	ug/kg	48000	54000	73 J
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	3300 J	3400 J	350 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	1500 J	1500 J	350 U

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

D - Diluted Sample Results

Legend

Confirmation Sample >

Documentation Sample below Cleanup Goals >

Documentation Sample above Cleanup Goals >



502149

Confirmation/Documentation Sample Results for the North Area - N12

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	1				
				Rustic-S6122A	Rustic-S6122B	Rustic-S6122C	Rustic-S6122D	Rustic-S6122E
				48 to 50 ft. MSL 0 to 2 ft. BGS	46 to 48 ft. MSL 2 to 4 ft. BGS	42 to 46 ft. MSL 4 to 8 ft. BGS	40 to 42 ft. MSL 8 to 10 ft. BGS	38 to 40 ft. MSL 10 to 12 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	300 J	280 J	350 U	340 U	380 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	380 J	450	350 U	340 U	380 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	180 J	140 J	350 U	340 U	360 U
50-32-8	Benzo(a)pyrene	660	ug/kg	210 J	180 J	350 U	340 U	380 U
218-01-9	Chrysene	90000	ug/kg	480	380 J	350 U	340 U	380 U
53-70-3	Dibenz(a,h)anthracene	860	ug/kg	390 U	400 U	350 U	340 U	380 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	87 J	66 J	350 U	340 U	380 U

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	1	2	3	4	5
				Rustic-S6061G	Rustic-S6062F	Rustic-S6068G	Rustic-D069C	Rustic-S6070G
				34 to 36 ft. MSL 14 to 16 ft. BGS	34 to 36 ft. MSL 14 to 16 ft. BGS	34 to 36 ft. MSL 14 to 16 ft. BGS	34 to 36 ft. MSL 14 to 16 ft. BGS	34 to 36 ft. MSL 14 to 16 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	20000	350 U	350 U	2100	370 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	27000	350 U	350 U	800	370 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	14000	350 U	350 U	990	370 U
50-32-8	Benzo(a)pyrene	660	ug/kg	22000	350 U	350 U	990	370 U
218-01-9	Chrysene	90000	ug/kg	26000	350 U	350 U	1800	370 U
53-70-3	Dibenz(a,h)anthracene	860	ug/kg	4200	350 U	350 U	180 J	370 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	1100	350 U	350 U	430	370 U

*NOTE: All data has been validated

Data Qualifiers:
 ND - No Data
 U - Non Detect
 J - Estimated Value
 D - Diluted Sample Results

Legend

Confirmation Sample >
 Documentation Sample below Cleanup Goals >
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Confirmation/Documentation Sample Results for the North Area - N12

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	1 (continued)		2		
				Rustic-S6122F	Rustic-S6122F-D	Rustic-S6119A	Rustic-S6119B	Rustic-S6119C
				36 to 38 ft. MSL	36 to 38 ft. MSL	48 to 50 ft. MSL	46 to 48 ft. MSL	42 to 44 ft. MSL
				12 to 14 ft. BGS	12 to 14 ft. BGS	0 to 2 ft. BGS	2 to 4 ft. BGS	4 to 8 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	350 U	360 U	68 J	82 J	350 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	350 U	360 U	93 J	92 J	350 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	350 U	360 U	390 U	380 U	350 U
50-32-8	Benzo(a)pyrene	660	ug/kg	350 U	360 U	56 J	56 J	350 U
218-01-9	Chrysene	90000	ug/kg	350 U	360 U	85 J	78 J	350 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	350 U	360 U	390 U	380 U	350 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	350 U	360 U	390 U	380 U	350 U

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	6		7		8	9
				Rustic-S6074G	Rustic-S6074G-D	Rustic-S6081G	Rustic-S6084F	Rustic-S6090G	
				34 to 36 ft. MSL	34 to 36 ft. MSL	34 to 36 ft. MSL	34 to 36 ft. MSL	34 to 36 ft. MSL	
				14 to 16 ft. BGS	14 to 16 ft. BGS	14 to 16 ft. BGS	14 to 16 ft. BGS	14 to 16 ft. BGS	
56-55-3	Benzo(a)anthracene	900	ug/kg	11000 D	15000 D	1800	210000		360 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	6800 DJ	9600 D	2500	130000		360 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	3800	4000	1100	75000		360 U
50-32-8	Benzo(a)pyrene	660	ug/kg	4900	1500 DJ	1200	100000		360 U
218-01-9	Chrysene	90000	ug/kg	10000 D	13000 D	1800	200000		360 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	430	460	130 J	12000 J		360 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg			420	12000 J		360 U

*NOTE: All data has been validated

Data Qualifiers:
 ND - No Data
 U - Non Detect
 J - Estimated Value
 D - Diluted Sample Results

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Confirmation/Documentation Sample Results for the North Area - N12

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	2 (continued)			3	
				Rustic-S6119D	Rustic-S6119E	Rustic-S6119F	Rustic-S6114A	Rustic-S6114B
				40 to 42 ft. MSL	38 to 40 ft. MSL	36 to 38 ft. MSL	48 to 50 ft. MSL	46 to 48 ft. MSL
				8 to 10 ft. BGS	10 to 12 ft. BGS	12 to 14 ft. BGS	0 to 2 ft. BGS	2 to 4 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	350 U	350 U	360 U	380 U	370 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	350 U	350 U	360 U	380 U	370 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	350 U	350 U	360 U	380 U	370 U
50-32-8	Benzo(a)pyrene	660	ug/kg	350 U	350 U	360 U	380 U	370 U
218-01-9	Chrysene	90000	ug/kg	350 U	350 U	360 U	380 U	370 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	350 U	350 U	360 U	380 U	370 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	350 U	350 U	360 U	380 U	370 U

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	10	11	12	13	14
				Rustic-S6091H	Rustic-S6093G	Rustic-S6094G	Rustic-S6097G	Rustic-S6098G
				32 to 34 ft. MSL	34 to 36 ft. MSL	34 to 36 ft. MSL	34 to 36 ft. MSL	34 to 36 ft. MSL
				16 to 18 ft. BGS	14 to 16 ft. BGS	14 to 16 ft. BGS	14 to 16 ft. BGS	14 to 16 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	60000	380 U	360 U	43000	2900
205-99-2	Benzo(b)fluoranthene	900	ug/kg	64000	380 U	360 U	23000 J	3100
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	31000	380 U	360 U	11000 J	1400
50-32-8	Benzo(a)pyrene	660	ug/kg	46000	360 U	360 U	17000 J	2200
218-01-9	Chrysene	90000	ug/kg	76000	360 U	360 U	35000 J	3200
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	5000 J	360 U	360 U	35000 U	220 J
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	11000	360 U	360 U	3500 J	780

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

D - Diluted Sample Results

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Confirmation/Documentation Sample Results for the North Area - N12

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	3 (continued)				4
				Rustic-S6114C	Rustic-S6114D	Rustic-S6114E	Rustic-S6114F	Rustic-S6113A
				42 to 46 ft. MSL	40 to 42 ft. MSL	38 to 40 ft. MSL	36 to 38 ft. MSL	48 to 50 ft. MSL
				4 to 8 ft. BGS	8 to 10 ft. BGS	10 to 12 ft. BGS	12 to 14 ft. BGS	0 to 2 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	340 U	350 U	360 U	350 U	380 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	340 U	350 U	360 U	350 U	380 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	340 U	350 U	360 U	350 U	380 U
50-32-8	Benzo(a)pyrene	660	ug/kg	340 U	350 U	360 U	350 U	380 U
218-01-9	Chrysene	90000	ug/kg	340 U	350 U	360 U	350 U	380 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	340 U	350 U	360 U	350 U	380 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	340 U	350 U	360 U	350 U	380 U

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	15	16	17	18	19
				Rustic-S6099G	RUSTIC-S6436H	Rustic-S6102G	Rustic-S6103G	Rustic-S184C
				34 to 36 ft. MSL	34 to 36 ft. MSL	34 to 36 ft. MSL	34 to 36 ft. MSL	34 to 36 ft. MSL
				14 to 16 ft. BGS	14 to 16 ft. BGS	14 to 16 ft. BGS	14 to 16 ft. BGS	14 to 15 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	87 J	360 U	350 U	58000 DJ	23000
205-99-2	Benzo(b)fluoranthene	900	ug/kg	82 J	360 U	350 U	32000 DJ	11000
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	38 J	360 U	350 U	6500 E	11000
50-32-8	Benzo(a)pyrene	660	ug/kg	49 J	360 U	350 U	24000 DJ	11000
218-01-9	Chrysene	90000	ug/kg	81 J	360 U	350 U	51000 DJ	19000
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	360 U	360 U	350 U	3800	2300 J
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	360 U	360 U	350 U	3700 E	1200 J

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

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SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	4 (continued)				
				Rustic-S6113B	Rustic-S6113C	Rustic-S6113D	Rustic-S6113E	Rustic-S6113F
				48 to 48 ft. MSL	42 to 48 ft. MSL	40 to 42 ft. MSL	38 to 40 ft. MSL	36 to 38 ft. MSL
				2 to 4 ft. BGS	4 to 8 ft. BGS	8 to 10 ft. BGS	10 to 12 ft. BGS	12 to 14 ft. BGS
58-55-3	Benzo(a)anthracene	900	ug/kg	370 U	340 U	360 U	340 U	340 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	370 U	340 U	360 U	340 U	340 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	370 U	340 U	360 U	340 U	340 U
50-32-8	Benzo(a)pyrene	660	ug/kg	370 U	340 U	360 U	340 U	340 U
218-01-9	Chrysene	90000	ug/kg	370 U	340 U	360 U	340 U	340 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	370 U	340 U	360 U	340 U	340 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	370 U	340 U	360 U	340 U	340 U

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	20	21	22	23	24
				Rustic-S6104G	Rustic-S6105G	Rustic-S6106G	Rustic-S6107G	Rustic-S6111G
				34 to 36 ft. MSL	34 to 36 ft. MSL	34 to 36 ft. MSL	34 to 36 ft. MSL	34 to 36 ft. MSL
				14 to 16 ft. BGS	14 to 16 ft. BGS	14 to 16 ft. BGS	14 to 16 ft. BGS	14 to 16 ft. BGS
58-55-3	Benzo(a)anthracene	900	ug/kg	45000 DJ	360 U	15000	350 U	6200
205-99-2	Benzo(b)fluoranthene	900	ug/kg	60000 E	360 U	7200	350 U	6200 J
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	64000 E	360 U	3400 J	350 U	1400 J
50-32-8	Benzo(a)pyrene	660	ug/kg	15000 DJ	360 U	4800	350 U	2400 J
218-01-9	Chrysene	90000	ug/kg	33000 DJ	36 J	9900	350 U	5100
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	2100	360 U	800 U	350 U	350 J
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	200 E	360 U	800 J	350 U	100 J

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

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J - Estimated Value

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Confirmation/Documentation Sample Results for the North Area - N12

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	4 (continued)	5			
				Rustic-S6113F-D	Rustic-S6108A	Rustic-S6108B	Rustic-S6108C	Rustic-S6108D
				36 to 38 ft. MSL	48 to 50 ft. MSL	46 to 48 ft. MSL	42 to 46 ft. MSL	40 to 42 ft. MSL
				12 to 14 ft. BGS	0 to 2 ft. BGS	2 to 4 ft. BGS	4 to 8 ft. BGS	8 to 10 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	340 U	350 U	380 U	350 U	350 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	340 U	350 U	380 U	350 U	350 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	340 U	350 U	380 U	350 U	350 U
50-32-8	Benzo(a)pyrene	660	ug/kg	340 U	350 U	380 U	350 U	350 U
218-01-9	Chrysene	90000	ug/kg	340 U	350 U	380 U	350 U	350 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	340 U	350 U	380 U	350 U	350 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	340 U	350 U	380 U	350 U	350 U

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	25	26	27	28
				Rustic-S6112F	Rustic-S6115G	Rustic-S6117G	Rustic-S6117G-D
				34 to 36 ft. MSL	34 to 36 ft. MSL	34 to 36 ft. MSL	34 to 36 ft. MSL
				14 to 16 ft. BGS	14 to 16 ft. BGS	14 to 16 ft. BGS	14 to 16 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	40000	360 U	350 U	2700
205-99-2	Benzo(b)fluoranthene	900	ug/kg	35000	360 U	350 U	3500
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	14000	360 U	350 U	710
50-32-8	Benzo(a)pyrene	660	ug/kg	26000	360 U	350 U	200
218-01-9	Chrysene	90000	ug/kg	44000	360 U	350 U	2400
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	3600 J	360 U	350 U	150 J
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg		360 U	350 U	440

*NOTE: All data has been validated

Data Qualifiers:
 ND - No Data
 U - Non Detect
 J - Estimated Value
 D - Diluted Sample Results

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SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	5 (continued)		6	
				Rustic-S6108E	Rustic-S6108F	Rustic-S6107A	Rustic-S6107B
				38 to 40 ft. MSL	36 to 38 ft. MSL	48 to 50 ft. MSL	46 to 48 ft. MSL
				10 to 12 ft. BGS	12 to 14 ft. BGS	0 to 2 ft. BGS	2 to 4 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	360 U	360 U	380 U	370 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	360 U	360 U	380 U	370 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	360 U	360 U	380 U	370 U
50-32-8	Benzo(a)pyrene	660	ug/kg	360 U	360 U	380 U	370 U
218-01-9	Chrysene	90000	ug/kg	360 U	360 U	380 U	370 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	360 U	360 U	380 U	370 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	360 U	360 U	380 U	370 U

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	28 con't	29	30	31	32
				Rustic-S6118G-D	Rustic-S6123G	RUSTIC-S6051G	RUSTIC-S6052G	RUSTIC-S6053G
				34 to 36 ft. MSL	34 to 36 ft. MSL	34 to 36 ft. MSL	34 to 36 ft. MSL	34 to 36 ft. MSL
				14 to 16 ft. BGS	14 to 16 ft. BGS	14 to 16 ft. BGS	14 to 16 ft. BGS	14 to 16 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	340 U	340 U	340 U	360 U	340 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	340 U	340 U	340 U	360 U	340 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	340 U	340 U	340 U	360 U	340 U
50-32-8	Benzo(a)pyrene	660	ug/kg	340 U	340 U	340 U	360 U	340 U
218-01-9	Chrysene	90000	ug/kg	340 U	340 U	340 U	360 U	340 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	340 U	340 U	340 U	360 U	340 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	340 U	340 U	340 U	360 U	340 U

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

D - Diluted Sample Results

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Confirmation/Documentation Sample Results for the North Area - N12

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	6 (continued)			7	
				Rustic-S6107D	Rustic-S6107E	Rustic-S6107F	Rustic-S6102A	Rustic-S6102B
				40 to 42 ft. MSL	38 to 40 ft. MSL	36 to 38 ft. MSL	48 to 50 ft. MSL	46 to 48 ft. MSL
				8 to 10 ft. BGS	10 to 12 ft. BGS	12 to 14 ft. BGS	0 to 2 ft. BGS	2 to 4 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	360 U	350 U	350 U	380 U	350 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	360 U	350 U	350 U	55 J	350 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	360 U	350 U	350 U	380 U	350 U
50-32-8	Benzo(a)pyrene	660	ug/kg	360 U	350 U	350 U	380 U	350 U
218-01-9	Chrysene	90000	ug/kg	360 U	350 U	350 U	380 U	350 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	360 U	350 U	350 U	380 U	350 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	360 U	350 U	350 U	380 U	350 U

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	33	34	35	36	37
				RUSTIC-S6055G	Rustic-S6056G	Rustic-S6065G	Rustic-S6057G	Rustic-S6064G
				34 to 36 ft. MSL	34 to 36 ft. MSL	34 to 36 ft. MSL	35 to 37 ft. MSL	34 to 36 ft. MSL
				14 to 16 ft. BGS	14 to 16 ft. BGS	14 to 16 ft. BGS	14 to 16 ft. BGS	14 to 16 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	350 U	340 U	22000 DJ	91 J	55 J
205-99-2	Benzo(b)fluoranthene	900	ug/kg	350 U	340 U	7000 DJ	45 J	350 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	350 U	340 U	3500	340 U	350 U
50-32-8	Benzo(a)pyrene	660	ug/kg	350 U	340 U	7600 DJ	42 J	350 U
218-01-9	Chrysene	90000	ug/kg	350 U	340 U	19000 DJ	64 J	44 J
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	350 U	340 U	700	340 U	350 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	350 U	340 U	400	340 U	350 U

*NOTE: All data has been validated

Data Qualifiers:
 ND - No Data
 U - Non Detect
 J - Estimated Value
 D - Diluted Sample Results

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Confirmation/Documentation Sample Results for the North Area - N12

SIDEWALL SAMPLES

				7 (continued)				
CAS#	COMPOUND	ACG CRITERIA	UNITS	Rustic-S6102C	Rustic-S6102D	Rustic-S6102D-D	Rustic-S6102E	Rustic-S6102F
				42 to 46 ft. MSL	40 to 42 ft. MSL	40 to 42 ft. MSL	38 to 40 ft. MSL	38 to 38 ft. MSL
				4 to 8 ft. BGS	8 to 10 ft. BGS	8 to 10 ft. BGS	10 to 12 ft. BGS	12 to 14 ft. BGS
58-55-3	Benzo(a)anthracene	900	ug/kg	350 U	340 U	340 U	360 U	360 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	350 U	340 U	340 U	360 U	360 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	350 U	340 U	340 U	360 U	360 U
50-32-8	Benzo(a)pyrene	660	ug/kg	350 U	340 U	340 U	360 U	360 U
218-01-9	Chrysene	90000	ug/kg	350 U	340 U	340 U	360 U	360 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	350 U	340 U	340 U	360 U	360 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	350 U	340 U	340 U	360 U	360 U

BOTTOM SAMPLES

				38	39	40		41
CAS#	COMPOUND	ACG CRITERIA	UNITS	Rustic-S6083G	Rustic-S6058G	RUSTIC-S6054G	RUSTIC-S6054H	Rustic-S6109G
				34 to 36 ft. MSL	35 to 37 ft. MSL	34 to 36 ft. MSL	32 to 34 ft. MSL	34 to 36 ft. MSL
				14 to 16 ft. BGS	14 to 16 ft. BGS	14 to 16 ft. BGS	16 to 18 ft. BGS	14 to 16 ft. BGS
58-55-3	Benzo(a)anthracene	900	ug/kg	340 U	340 U	340 U	780	780
205-99-2	Benzo(b)fluoranthene	900	ug/kg	340 U	340 U	340 U	630	620 J
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	340 U	340 U	340 U	1200	270 J
50-32-8	Benzo(a)pyrene	660	ug/kg	340 U	340 U	340 U	2000	410
218-01-9	Chrysene	90000	ug/kg	340 U	340 U	340 U	140 J	610
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	340 U	340 U	340 U	8200 D	43 J
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	340 U	340 U	340 U	5500 D	140 J

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

D - Diluted Sample Results

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Confirmation/Documentation Sample Results for the North Area - N12

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	8				
				Rustic-S6100A	Rustic-S6100B	Rustic-S6100C	Rustic-S6100D	Rustic-S6100E
				48 to 50 ft. MSL 0 to 2 ft. BGS	46 to 48 ft. MSL 2 to 4 ft. BGS	42 to 46 ft. MSL 4 to 8 ft. BGS	40 to 42 ft. MSL 8 to 10 ft. BGS	38 to 40 ft. MSL 10 to 12 ft. BGS
58-55-3	Benzo(a)anthracene	900	ug/kg	380 U	380 U	400 U	360 U	360 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	380 U	380 U	400 U	360 U	360 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	380 U	380 U	400 U	360 U	360 U
50-32-8	Benzo(a)pyrene	660	ug/kg	380 U	380 U	400 U	360 U	360 U
218-01-9	Chrysene	90000	ug/kg	380 U	380 U	400 U	360 U	360 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	380 U	380 U	400 U	360 U	360 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	380 U	380 U	400 U	360 U	360 U

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	41 con't	42		43	
				Rustic-S6109H	Rustic-S6116G	Rustic-S6116H	Rustic-S6110G	Rustic-S6110H
				32 to 34 ft. MSL 16 to 18 ft. BGS	34 to 36 ft. MSL 14 to 16 ft. BGS	32 to 34 ft. MSL 16 to 18 ft. BGS	34 to 36 ft. MSL 14 to 16 ft. BGS	32 to 34 ft. MSL 16 to 18 ft. BGS
58-55-3	Benzo(a)anthracene	900	ug/kg	17000	340 U	12000 D	170 J	4200
205-99-2	Benzo(b)fluoranthene	900	ug/kg	20000	340 U	7800 D	130 J	2200
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	22000	340 U	3400	56 J	1300
50-32-8	Benzo(a)pyrene	660	ug/kg	14000	340 U	300 D	41 J	700
218-01-9	Chrysene	90000	ug/kg	17000	340 U	12000 D	180 J	3500
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	1200 J	340 U	570	350 U	180 J
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg		340 U		350 U	520

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

D - Diluted Sample Results

Legend

Confirmation Sample >

Documentation Sample below Cleanup Goals >

Documentation Sample above Cleanup Goals >



502159

Confirmation/Documentation Sample Results for the North Area - N12

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	8 (continued)		9				
				Rustic-S6100F	Rustic-S6100F-D	Rustic-S6093A	Rustic-S6093B	Rustic-S6093C		
				36 to 38 ft. MSL	36 to 38 ft. MSL	48 to 50 ft. MSL	48 to 48 ft. MSL	42 to 48 ft. MSL		
				12 to 14 ft. BGS	12 to 14 ft. BGS	0 to 2 ft. BGS	2 to 4 ft. BGS	4 to 8 ft. BGS		
56-55-3	Benzo(a)anthracene	900	ug/kg	360 U	360 U	380 U	370 U	360 U	360 U	360 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	360 U	360 U	59 J	370 U	360 U	360 U	360 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	360 U	360 U	380 U	370 U	360 U	360 U	360 U
50-32-8	Benzo(a)pyrene	660	ug/kg	360 U	360 U	40 J	370 U	360 U	360 U	360 U
218-01-9	Chrysene	90000	ug/kg	360 U	360 U	380 U	370 U	360 U	360 U	360 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	360 U	360 U	380 U	370 U	360 U	360 U	360 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	360 U	360 U	380 U	370 U	360 U	360 U	360 U

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS
56-55-3	Benzo(a)anthracene	900	ug/kg
205-99-2	Benzo(b)fluoranthene	900	ug/kg
207-08-9	Benzo(k)fluoranthene	9000	ug/kg
50-32-8	Benzo(a)pyrene	660	ug/kg
218-01-9	Chrysene	90000	ug/kg
53-70-3	Dibenz(a,h)anthracene	660	ug/kg
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

D - Diluted Sample Results

Legend

Confirmation Sample >

Documentation Sample below Cleanup Goals >

Documentation Sample above Cleanup Goals >



502160

Confirmation/Documentation Sample Results for the North Area - N12

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	9 (continued)				10
				Rustic-S6093C-D	Rustic-S6093D	Rustic-S6093E	Rustic-S6093F	Rustic-S6083A
				42 to 46 ft. MSL	40 to 42 ft. MSL	38 to 40 ft. MSL	36 to 38 ft. MSL	48 to 50 ft. MSL
				4 to 8 ft. BGS	8 to 10 ft. BGS	10 to 12 ft. BGS	12 to 14 ft. BGS	0 to 2 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	360 U	340 U	350 U	360 U	380 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	360 U	340 U	350 U	360 U	380 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	360 U	340 U	350 U	360 U	380 U
50-32-8	Benzo(a)pyrene	660	ug/kg	360 U	340 U	350 U	360 U	380 U
218-01-9	Chrysene	90000	ug/kg	360 U	340 U	350 U	360 U	380 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	360 U	340 U	350 U	360 U	380 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	360 U	340 U	350 U	360 U	380 U

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS
56-55-3	Benzo(a)anthracene	900	ug/kg
205-99-2	Benzo(b)fluoranthene	900	ug/kg
207-08-9	Benzo(k)fluoranthene	9000	ug/kg
50-32-8	Benzo(a)pyrene	660	ug/kg
218-01-9	Chrysene	90000	ug/kg
53-70-3	Dibenz(a,h)anthracene	660	ug/kg
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

D - Diluted Sample Results

Legend

Confirmation Sample >

Documentation Sample below Cleanup Goals >

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502161

Confirmation/Documentation Sample Results for the North Area - N12

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	10 (continued)				
				Rustic-S6083B	Rustic-S6083C	Rustic-S6083D	Rustic-S6083D-D	Rustic-S6083E
				46 to 48 ft. MSL 2 to 4 ft. BGS	42 to 46 ft. MSL 4 to 6 ft. BGS	40 to 42 ft. MSL 6 to 10 ft. BGS	40 to 42 ft. MSL 6 to 10 ft. BGS	38 to 40 ft. MSL 10 to 12 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	370 U	360 U	360 U	360 U	360 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	370 U	360 U	360 U	360 U	360 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	370 U	360 U	360 U	360 U	360 U
50-32-8	Benzo(a)pyrene	660	ug/kg	370 U	360 U	360 U	360 U	360 U
218-01-9	Chrysene	90000	ug/kg	370 U	360 U	360 U	360 U	360 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	370 U	360 U	360 U	360 U	360 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	370 U	360 U	360 U	360 U	360 U

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS
56-55-3	Benzo(a)anthracene	900	ug/kg
205-99-2	Benzo(b)fluoranthene	900	ug/kg
207-08-9	Benzo(k)fluoranthene	9000	ug/kg
50-32-8	Benzo(a)pyrene	660	ug/kg
218-01-9	Chrysene	90000	ug/kg
53-70-3	Dibenz(a,h)anthracene	660	ug/kg
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

D - Diluted Sample Results

Legend

Confirmation Sample >

Documentation Sample below Cleanup Goals >

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502162

Confirmation/Documentation Sample Results for the North Area - N12

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	10 (continued)		11				
				Rustic-S6083F		Rustic-S6082A		Rustic-S6082B		Rustic-S6082C
				38 to 38 ft. MSL		48 to 50 ft. MSL		46 to 48 ft. MSL		42 to 46 ft. MSL
				12 to 14 ft. BGS		0 to 2 ft. BGS		2 to 4 ft. BGS		4 to 8 ft. BGS
58-55-3	Benzo(a)anthracene	900	ug/kg	360 U		240 J		370 U		360 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	360 U		310 J		370 U		67 J
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	360 U		110 J		370 U		360 U
50-32-8	Benzo(a)pyrene	660	ug/kg	360 U		170 J		370 U		52 J
218-01-9	Chrysene	90000	ug/kg	360 U		190 J		370 U		360 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	360 U		370 U		370 U		360 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	360 U		81 J		370 U		360 U

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS
58-55-3	Benzo(a)anthracene	900	ug/kg
205-99-2	Benzo(b)fluoranthene	900	ug/kg
207-08-9	Benzo(k)fluoranthene	9000	ug/kg
50-32-8	Benzo(a)pyrene	660	ug/kg
218-01-9	Chrysene	90000	ug/kg
53-70-3	Dibenz(a,h)anthracene	660	ug/kg
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

D - Diluted Sample Results

Legend

Confirmation Sample >

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502163

Confirmation/Documentation Sample Results for the North Area - N12

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	11 (continued)			12	
				Rustic-S6082E	Rustic-S6082F	Rustic-S6082F-D	Rustic-S6073D	Rustic-S6073E
				38 to 40 ft. MSL	38 to 38 ft. MSL	38 to 38 ft. MSL	40 to 42 ft. MSL	38 to 40 ft. MSL
				10 to 12 ft. BGS	12 to 14 ft. BGS	12 to 14 ft. BGS	8 to 10 ft. BGS	10 to 12 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	350 U	350 U	350 U	88 J	350 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	350 U	350 U	350 U	54 J	350 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	350 U	350 U	350 U	340 U	350 U
50-32-8	Benzo(a)pyrene	660	ug/kg	350 U	350 U	350 U	36 J	350 U
218-01-9	Chrysene	90000	ug/kg	350 U	350 U	350 U	50 J	350 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	350 U	350 U	350 U	340 U	350 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	350 U	350 U	350 U	340 U	350 U

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS
56-55-3	Benzo(a)anthracene	900	ug/kg
205-99-2	Benzo(b)fluoranthene	900	ug/kg
207-08-9	Benzo(k)fluoranthene	9000	ug/kg
50-32-8	Benzo(a)pyrene	660	ug/kg
218-01-9	Chrysene	90000	ug/kg
53-70-3	Dibenz(a,h)anthracene	660	ug/kg
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

D - Diluted Sample Results

Legend

Confirmation Sample >

Documentation Sample below Cleanup Goals >

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502164

Confirmation/Documentation Sample Results for the North Area - N12

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	12 (continued)		13							
				Rustic-S6073F		RUSTIC-S6432A		RUSTIC-S6432B		RUSTIC-S6432C		RUSTIC-S6432C-D	
				36 to 38 ft. MSL		46 to 48 ft. BGS		44 to 46 ft. BGS		42 to 44 ft. BGS		42 to 44 ft. BGS	
				12 to 14 ft. BGS		2 to 4 ft. BGS		4 to 6 ft. BGS		6 to 8 ft. BGS		6 to 8 ft. BGS	
56-55-3	Benzo(a)anthracene	900	ug/kg	74 J	380 U	370 U		350 U		360 U			
205-99-2	Benzo(b)fluoranthene	900	ug/kg	69 J	380 U	370 U		350 U		360 U			
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	350 U	380 U	370 U		350 U		360 U			
50-32-8	Benzo(a)pyrene	660	ug/kg	45 J	380 U	370 U		350 U		360 U			
218-01-9	Chrysene	90000	ug/kg	68 J	380 U	370 U		350 U		360 U			
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	350 U	380 U	370 U		350 U		360 U			
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	350 U	380 U	370 U		350 U		360 U			

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS
56-55-3	Benzo(a)anthracene	900	ug/kg
205-99-2	Benzo(b)fluoranthene	900	ug/kg
207-08-9	Benzo(k)fluoranthene	9000	ug/kg
50-32-8	Benzo(a)pyrene	660	ug/kg
218-01-9	Chrysene	90000	ug/kg
53-70-3	Dibenz(a,h)anthracene	660	ug/kg
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

D - Diluted Sample Results

Legend

Confirmation Sample >

Documentation Sample below Cleanup Goals >

Documentation Sample above Cleanup Goals >



502165

Confirmation/Documentation Sample Results for the North Area - N12

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	13 (continued)	14				
				RUSTIC-S6432D	Rustic-S6070A	Rustic-S6070B	Rustic-S6070C	Rustic-S6070D	
				40 to 42 ft. BGS	48 to 50 ft. MSL	46 to 48 ft. MSL	42 to 46 ft. MSL	40 to 42 ft. MSL	
				8 to 10 ft. BGS	0 to 2 ft. BGS	2 to 4 ft. BGS	4 to 8 ft. BGS	8 to 10 ft. BGS	
58-55-3	Benzo(a)anthracene	900	ug/kg	340 U	370 U	380 U	360 U	360 U	
205-99-2	Benzo(b)fluoranthene	900	ug/kg	340 U	370 U	380 U	360 U	360 U	
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	340 U	370 U	380 U	360 U	360 U	
50-32-8	Benzo(a)pyrene	660	ug/kg	340 U	370 U	380 U	360 U	360 U	
218-01-9	Chrysene	90000	ug/kg	340 U	370 U	380 U	360 U	360 U	
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	340 U	370 U	380 U	360 U	360 U	
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	340 U	370 U	380 U	360 U	360 U	

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS
58-55-3	Benzo(a)anthracene	900	ug/kg
205-99-2	Benzo(b)fluoranthene	900	ug/kg
207-08-9	Benzo(k)fluoranthene	9000	ug/kg
50-32-8	Benzo(a)pyrene	660	ug/kg
218-01-9	Chrysene	90000	ug/kg
53-70-3	Dibenz(a,h)anthracene	660	ug/kg
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

D - Diluted Sample Results

Legend

Confirmation Sample >

Documentation Sample below Cleanup Goals >

Documentation Sample above Cleanup Goals >



Confirmation/Documentation Sample Results for the North Area - N12

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	14 (continued)		15			
				Rustic-S6070E	Rustic-S6070F	Rustic-S6060C	Rustic-S6060C-D	Rustic-S6060D	
				38 to 40 ft. MSL	38 to 38 ft. MSL	42 to 46 ft. MSL	42 to 46 ft. MSL	40 to 42 ft. MSL	
				10 to 12 ft. BGS	12 to 14 ft. BGS	4 to 8 ft. BGS	4 to 8 ft. BGS	8 to 10 ft. BGS	
56-55-3	Benzo(a)anthracene	900	ug/kg	380 U	370 U	190 J		260 J	350 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	380 U	370 U	270 J		430	350 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	380 U	370 U	130 J		210 J	350 U
50-32-8	Benzo(a)pyrene	660	ug/kg	380 U	370 U	180 J		190 J	350 U
218-01-9	Chrysene	90000	ug/kg	380 U	370 U	200 J		350 J	350 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	380 U	370 U	370 U		370 U	350 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	380 U	370 U	79 J		110 J	350 U

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS
56-55-3	Benzo(a)anthracene	900	ug/kg
205-99-2	Benzo(b)fluoranthene	900	ug/kg
207-08-9	Benzo(k)fluoranthene	9000	ug/kg
50-32-8	Benzo(a)pyrene	660	ug/kg
218-01-9	Chrysene	90000	ug/kg
53-70-3	Dibenz(a,h)anthracene	660	ug/kg
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

D - Diluted Sample Results

Legend

Confirmation Sample >

Documentation Sample below Cleanup Goals >

Documentation Sample above Cleanup Goals >



502167

Confirmation/Documentation Sample Results for the North Area - N12

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	15 (continued)		16			
				Rustic-S6060E	Rustic-S6059C	Rustic-S6059D	Rustic-S6059E	Rustic-S6059F	
				38 to 40 ft. MSL	42 to 46 ft. MSL	40 to 42 ft. MSL	38 to 40 ft. MSL	36 to 38 ft. MSL	
				10 to 12 ft. BGS	4 to 8 ft. BGS	8 to 10 ft. BGS	10 to 12 ft. BGS	12 to 14 ft. BGS	
56-55-3	Benzo(a)anthracene	900	ug/kg	340 U	360 U	350 U	350 U	340 U	
205-99-2	Benzo(b)fluoranthene	900	ug/kg	340 U	360 U	350 U	350 U	340 U	
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	340 U	360 U	350 U	350 U	340 U	
50-32-8	Benzo(a)pyrene	660	ug/kg	340 U	360 U	350 U	350 U	340 U	
218-01-9	Chrysene	90000	ug/kg	340 U	360 U	350 U	350 U	340 U	
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	340 U	360 U	350 U	350 U	340 U	
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	340 U	360 U	350 U	350 U	340 U	

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS
56-55-3	Benzo(a)anthracene	900	ug/kg
205-99-2	Benzo(b)fluoranthene	900	ug/kg
207-08-9	Benzo(k)fluoranthene	9000	ug/kg
50-32-8	Benzo(a)pyrene	660	ug/kg
218-01-9	Chrysene	90000	ug/kg
53-70-3	Dibenz(a,h)anthracene	660	ug/kg
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

D - Diluted Sample Results

Legend

Confirmation Sample >

Documentation Sample below Cleanup Goals >

Documentation Sample above Cleanup Goals >



502168

Confirmation/Documentation Sample Results for the North Area - N12

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	16 (continued)	17				
				Rustic-S6059F-D	RUSTIC-S6051D	RUSTIC-S6051E	RUSTIC-S6051F	RUSTIC-S6051F-D	
				36 to 38 ft. MSL	40 to 42 ft. MSL	38 to 40 ft. MSL	36 to 38 ft. MSL	36 to 38 ft. MSL	
				12 to 14 ft. BGS	8 to 10 ft. BGS	10 to 12 ft. BGS	12 to 14 ft. BGS	12 to 14 ft. BGS	
56-55-3	Benzo(a)anthracene	900	ug/kg	350 U	400 U	410 U	440 U	430 U	430 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	350 U	400 U	410 U	440 U	430 U	430 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	350 U	400 U	410 U	440 U	430 U	430 U
50-32-8	Benzo(a)pyrene	660	ug/kg	350 U	400 U	410 U	440 U	430 U	430 U
218-01-9	Chrysene	90000	ug/kg	350 U	400 U	410 U	440 U	430 U	430 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	350 U	400 U	410 U	440 U	430 U	430 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	350 U	400 U	410 U	440 U	430 U	430 U

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS
56-55-3	Benzo(a)anthracene	900	ug/kg
205-99-2	Benzo(b)fluoranthene	900	ug/kg
207-08-9	Benzo(k)fluoranthene	9000	ug/kg
50-32-8	Benzo(a)pyrene	660	ug/kg
218-01-9	Chrysene	90000	ug/kg
53-70-3	Dibenz(a,h)anthracene	660	ug/kg
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

D - Diluted Sample Results

Legend

Confirmation Sample >

Documentation Sample below Cleanup Goals >

Documentation Sample above Cleanup Goals >



502169

Confirmation/Documentation Sample Results for the North Area - N12

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	18		19		20	
				Rustic-S6063E	Rustic-S6063F	FCS-OU3-0109-NQ1-W1-37.2-7		FCS-OU3-0110-NR1-W1-37.1-7	
				38 to 40 ft. MSL	38 to 38 ft. MSL	37.2 ft. MSL		37.1 ft. MSL	
				10 to 12 ft. BGS	12 to 14 ft. BGS	13.8 ft. BGS		13.9 ft. BGS	
58-55-3	Benzo(a)anthracene	900	ug/kg	480 U	340 U	380		813	
205-99-2	Benzo(b)fluoranthene	900	ug/kg	480 U	340 U	241		714	
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	480 U	340 U	97		279	
50-32-8	Benzo(a)pyrene	860	ug/kg	480 U	340 U	149		458	
218-01-9	Chrysene	90000	ug/kg	480 U	340 U	335		855	
53-70-3	Dibenz(a,h)anthracene	860	ug/kg	480 U	340 U	67 U		72	
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	480 U	340 U	98		207	

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS
58-55-3	Benzo(a)anthracene	900	ug/kg
205-99-2	Benzo(b)fluoranthene	900	ug/kg
207-08-9	Benzo(k)fluoranthene	9000	ug/kg
50-32-8	Benzo(a)pyrene	860	ug/kg
218-01-9	Chrysene	90000	ug/kg
53-70-3	Dibenz(a,h)anthracene	860	ug/kg
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Not Detect

J - Estimated Value

D - Diluted Sample Results

Legend

Confirmation Sample >

Documentation Sample below Cleanup Goals >

Documentation Sample above Cleanup Goals >



502170

Confirmation/Documentation Sample Results for the North Area - N13

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	1	2			
				RUSTIC-S8507E	RUSTIC-S8508E	RUSTIC-S8508E-D	RUSTIC-S8508F	RUSTIC-S8508G
				41 to 43 ft. MSL 8 to 10 ft. BGS	41 to 43 ft. MSL 8 to 10 ft. BGS	41 to 43 ft. MSL 8 to 10 ft. BGS	39 to 41 ft. MSL 10 to 12 ft. BGS	37 to 39 ft. MSL 12 to 14 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	390	110 J	180 J	350 U	350 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	630	170 J	180 J	350 U	350 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	240 J	87 J	79 J	350 U	350 U
50-32-8	Benzo(a)pyrene	660	ug/kg	360 J	100 J	100 J	350 U	350 U
218-01-9	Chrysene	90000	ug/kg	480	150 J	190 J	350 U	350 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	70 J	360 U	360 U	350 U	350 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	190 J	360 U	55 J	350 U	350 U

BOTTOM SAMPLES

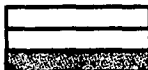
CAS#	COMPOUND	ACG CRITERIA	UNITS	1	2	3	4	5
				RUSTIC-S8501H	RUSTIC-S8502H	RUSTIC-S8503H	RUSTIC-S8504H	RUSTIC-S8505H
				35 to 37 ft. MSL 14 to 16 ft. BGS	35 to 37 ft. MSL 14 to 16 ft. BGS	35 to 37 ft. MSL 14 to 16 ft. BGS	35 to 37 ft. MSL 14 to 16 ft. BGS	35 to 37 ft. MSL 14 to 16 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	510	370 U	120 J	1500	1800
205-99-2	Benzo(b)fluoranthene	900	ug/kg	380 J	370 U	480 U	660	2700
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	160 J	370 U	480 U	660	1300
50-32-8	Benzo(a)pyrene	660	ug/kg	280 J	370 U	480 U	660	2700
218-01-9	Chrysene	90000	ug/kg	680	370 U	92 J	1800	2300
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	450 U	370 U	480 U	150 J	290 J
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	120 J	370 U	480 U	480	

*NOTE: All data has been validated

Data Qualifiers:
 ND - No Data
 U - Non Detect
 J - Estimated Value
 D - Diluted Sample Results

Legend

Confirmation Sample >
 Documentation Sample below Cleanup Goals >
 Documentation Sample above Cleanup Goals >



502171

Confirmation/Documentation Sample Results for the North Area - N13

SIDEWALL SAMPLES

				2 (continued)		3					
CAS#	COMPOUND	ACG CRITERIA	UNITS	RUSTIC-S8508G-D		RUSTIC-S8510E	RUSTIC-S8510E-D	RUSTIC-S8510F	RUSTIC-S8510G		
				37 to 39 ft. MSL		41 to 43 ft. MSL	41 to 43 ft. MSL	39 to 41 ft. MSL	37 to 39 ft. MSL		
				12 to 14 ft. BGS		8 to 10 ft. BGS	8 to 10 ft. BGS	10 to 12 ft. BGS	12 to 14 ft. BGS		
56-55-3	Benzo(a)anthracene	900	ug/kg	350	U	380	U	350	U	440	U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	350	U	360	U	350	U	440	U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	350	U	380	U	350	U	440	U
50-32-8	Benzo(a)pyrene	880	ug/kg	350	U	380	U	350	U	440	U
218-01-9	Chrysene	90000	ug/kg	350	U	380	U	350	U	440	U
53-70-3	Dibenz(a,h)anthracene	880	ug/kg	350	U	380	U	350	U	440	U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	350	U	360	U	350	U	440	U

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	6	7	8	9	10
				RUSTIC-S8508H	RUSTIC-S8508H	RUSTIC-S8509H	RUSTIC-S8510H	RUSTIC-S8513H
				35 to 37 ft. MSL	35 to 37 ft. MSL	35 to 37 ft. MSL	35 to 37 ft. MSL	35 to 37 ft. MSL
				14 to 16 ft. BGS	14 to 16 ft. BGS	14 to 16 ft. BGS	14 to 16 ft. BGS	14 to 16 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	430 U	43000 D	43000 D	350 U	480 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	430 U	23000 D	800	350 U	480 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	430 U	13000 D	430	350 U	480 U
50-32-8	Benzo(a)pyrene	880	ug/kg	430 U	20000 J	810	350 U	480 U
218-01-9	Chrysene	90000	ug/kg	430 U	45000 D	1400	350 U	480 U
53-70-3	Dibenz(a,h)anthracene	880	ug/kg	430 U		73 J	350 U	480 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	430 U		200 J	350 U	480 U

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

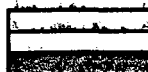
D - Diluted Sample Results

Legend

Confirmation Sample >

Documentation Sample below Cleanup Goals >

Documentation Sample above Cleanup Goals >



502172

Confirmation/Documentation Sample Results for the North Area - N13

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	3 (continued)	4		5	
				RUSTIC-S8510G-D	RUSTIC-S8515E	RUSTIC-S8515F	RUSTIC-S8515G	RUSTIC-S8520B
				37 to 39 ft. MSL 12 to 14 ft. BGS	41 to 43 ft. MSL 8 to 10 ft. BGS	39 to 41 ft. MSL 10 to 12 ft. BGS	37 to 39 ft. MSL 12 to 14 ft. BGS	47 to 49 ft. MSL 2 to 4 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	450 U	63 J	430 U	410 U	59 J
205-99-2	Benzo(b)fluoranthene	900	ug/kg	450 U	92 J	430 U	410 U	60 J
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	450 U	32 J	430 U	410 U	390 U
50-32-8	Benzo(a)pyrene	660	ug/kg	450 U	45 J	430 U	410 U	390 U
218-01-9	Chrysene	90000	ug/kg	450 U	64 J	430 U	410 U	53 J
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	450 U	390 U	430 U	410 U	390 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	450 U	390 U	430 U	410 U	390 U

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	11	12	13	14
				RUSTIC-S8514H	RUSTIC-S8515H	RUSTIC-S8519H	RUSTIC-S8525H
				35 to 37 ft. MSL 14 to 16 ft. BGS	35 to 37 ft. MSL 14 to 16 ft. BGS	35 to 37 ft. MSL 14 to 16 ft. BGS	35 to 37 ft. MSL 14 to 16 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	7000	470 U	390 U	5000 D
205-99-2	Benzo(b)fluoranthene	900	ug/kg	4000	470 U	390 U	2000 D
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	19000	470 U	390 U	5100
50-32-8	Benzo(a)pyrene	660	ug/kg	3000	470 U	390 U	200 DJ
218-01-9	Chrysene	90000	ug/kg	58000	470 U	390 U	13000 D
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	4000 J	470 U	390 U	1100
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	2000	470 U	390 U	1000

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

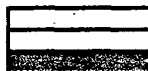
U - Non Detect

J - Estimated Value

D - Diluted Sample Results

Legend

Confirmation Sample >
Documentation Sample below Cleanup Goals >
Documentation Sample above Cleanup Goals >



502173

Confirmation/Documentation Sample Results for the North Area - N13

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	5 (continued)				
				RUSTIC-S6520C	RUSTIC-S6520D	RUSTIC-S6520E	RUSTIC-S6520D	RUSTIC-S6520E
				45 to 47 ft. MSL 4 to 6 ft. BGS	43 to 45 ft. MSL 6 to 8 ft. BGS	41 to 43 ft. MSL 8 to 10 ft. BGS	43 to 45 ft. MSL 6 to 8 ft. BGS	41 to 43 ft. MSL 8 to 10 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	230 J	350 U	110 J	350 U	270 J
205-99-2	Benzo(b)fluoranthene	900	ug/kg	400	350 U	190 J	350 U	400
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	200 J	350 U	67 J	350 U	200 J
50-32-8	Benzo(a)pyrene	660	ug/kg	250 J	350 U	99 J	350 U	230 J
218-01-9	Chrysene	90000	ug/kg	260 J	350 U	110 J	350 U	300 J
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	51 J	350 U	350 U	350 U	47 J
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	120 J	350 U	45 J	350 U	110 J

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	15				16		17			
				FC8-OU3-0120-FTE1-F-37.0-7		FC8-OU3-9008-FTE1-F-37.0-7		FC8-OU3-0139-FTF2-F-37.0-7		FC8-OU3-0120-FTF1-F-37.0-7			
				37.0 ft. MSL 14.0 ft. BGS	37.0 ft. MSL 14.0 ft. BGS	37.0 ft. MSL 14.0 ft. BGS	37.0 ft. MSL 14.0 ft. BGS	37.0 ft. MSL 14.0 ft. BGS	37.0 ft. MSL 14.0 ft. BGS	37.0 ft. MSL 14.0 ft. BGS	37.0 ft. MSL 14.0 ft. BGS	37.0 ft. MSL 14.0 ft. BGS	37.0 ft. MSL 14.0 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	239	383	67 U	67 U	67 U	67 U	67 U	67 U	67 U	67 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	298	554	67 U	67 U	67 U	67 U	67 U	67 U	67 U	67 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	107	200	67 U	67 U	67 U	67 U	67 U	67 U	67 U	67 U
50-32-8	Benzo(a)pyrene	660	ug/kg	207	311	67 U	67 U	67 U	67 U	67 U	67 U	67 U	67 U
218-01-9	Chrysene	90000	ug/kg	233	401	67 U	67 U	67 U	67 U	67 U	67 U	67 U	67 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	67 U	67 U	67 U	67 U	67 U	67 U	67 U	67 U	67 U	67 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	85	103	67 U	67 U	67 U	67 U	67 U	67 U	67 U	67 U

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

D - Diluted Sample Results

Legend

Confirmation Sample >

Documentation Sample below Cleanup Goals >

Documentation Sample above Cleanup Goals >



502174

Confirmation/Documentation Sample Results for the North Area - N13

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	7	8				
				RUSTIC-S6407D	Rustic-S6048D	Rustic-S6049D-D	Rustic-S6049E	Rustic-S6049F	
				43 to 45 ft. MSL	41 to 43 ft. MSL	41 to 43 ft. MSL	39 to 41 ft. MSL	37 to 39 ft. MSL	
				6 to 8 ft. BGS	8 to 10 ft. BGS	8 to 10 ft. BGS	10 to 12 ft. BGS	12 to 14 ft. BGS	
56-55-3	Benzo(a)anthracene	900	ug/kg	350 U	390 U	390 U	450 U	350 U	
205-99-2	Benzo(b)fluoranthene	900	ug/kg	350 U	390 U	390 U	450 U	350 U	
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	350 U	390 U	390 U	450 U	350 U	
50-32-8	Benzo(e)pyrene	660	ug/kg	350 U	390 U	390 U	450 U	350 U	
218-01-9	Chrysene	90000	ug/kg	350 U	390 U	390 U	450 U	350 U	
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	350 U	390 U	390 U	450 U	350 U	
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	350 U	390 U	390 U	450 U	350 U	

BOTTOM SAMPLES

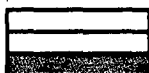
CAS#	COMPOUND	ACG CRITERIA	UNITS
56-55-3	Benzo(a)anthracene	900	ug/kg
205-99-2	Benzo(b)fluoranthene	900	ug/kg
207-08-9	Benzo(k)fluoranthene	9000	ug/kg
50-32-8	Benzo(e)pyrene	660	ug/kg
218-01-9	Chrysene	90000	ug/kg
53-70-3	Dibenz(a,h)anthracene	660	ug/kg
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg

*NOTE: All data has been validated

Data Qualifiers:
 ND - No Data
 U - Non Detect
 J - Estimated Value
 D - Diluted Sample Results

Legend

Confirmation Sample >
 Documentation Sample below Cleanup Goals >
 Documentation Sample above Cleanup Goals >



502175

Confirmation/Documentation Sample Results for the North Area - N13

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	9				
				Rustic-S6059C	Rustic-S6059D	Rustic-S6059E	Rustic-S6059F	Rustic-S6059F-D
				43 to 47 ft. MSL	41 to 43 ft. MSL	39 to 41 ft. MSL	37 to 39 ft. MSL	37 to 39 ft. MSL
				4 to 8 ft. BGS	8 to 10 ft. BGS	10 to 12 ft. BGS	12 to 14 ft. BGS	12 to 14 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	360 U	350 U	350 U	340 U	350 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	360 U	350 U	350 U	340 U	350 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	360 U	350 U	350 U	340 U	350 U
50-32-8	Benzo(e)pyrene	660	ug/kg	360 U	350 U	350 U	340 U	350 U
218-01-9	Chrysene	90000	ug/kg	360 U	350 U	350 U	340 U	350 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	360 U	350 U	350 U	340 U	350 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	360 U	350 U	350 U	340 U	350 U

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS
56-55-3	Benzo(a)anthracene	900	ug/kg
205-99-2	Benzo(b)fluoranthene	900	ug/kg
207-08-9	Benzo(k)fluoranthene	9000	ug/kg
50-32-8	Benzo(e)pyrene	660	ug/kg
218-01-9	Chrysene	90000	ug/kg
53-70-3	Dibenz(a,h)anthracene	660	ug/kg
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

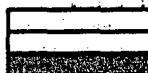
U - Non Detect

J - Estimated Value

D - Diluted Sample Results

Legend

Confirmation Sample >
Documentation Sample below Cleanup Goals >
Documentation Sample above Cleanup Goals >



502176

Confirmation/Documentation Sample Results for the North Area - N13

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	10		11		12		13		14			
				FCS-OU3-0143-FTG1-W1-41.95-7		FCS-OU3-9007-FTG1-W1-41.95-7		FCS-OU3-0143-FTG1-W2-39.7-7		FCS-OU3-0129-FTF1-W1-42.0-7		FCS-OU3-0111-FTD1-W1-40.8-7		FCS-OU3-0148-FTE3-W1-40.50-7	
				41.95 R. MSL		41.95 R. MSL		39.7 R. MSL		42.0 R. MSL		40.0 R. MSL		40.50 R. MSL	
				9.05 R. BGS		9.05 R. BGS		11.3 R. BGS		9.0 R. BGS		11.0 R. BGS		10.5 R. BGS	
56-55-3	Benzo(a)anthracene	900	ug/kg	67 U	67 U	67 U	67 U	67 U	67 U	67 U	67 U	67 U	67 U		
205-99-2	Benzo(b)fluoranthene	900	ug/kg	67 U	67 U	67 U	67 U	114	67 U	111	67 U	67 U	67 U		
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	67 U	67 U	67 U	67 U	67 U	67 U	67 U	67 U	67 U	67 U		
50-32-8	Benzo(a)pyrene	650	ug/kg	67 U	67 U	67 U	67 U	67 U	67 U	67 U	67 U	67 U	67 U		
218-01-9	Chrysene	90000	ug/kg	67 U	67 U	67 U	67 U	67 U	67 U	67 U	67 U	67 U	67 U		
53-70-3	Dibenz(a,h)anthracene	650	ug/kg	67 U	67 U	67 U	67 U	67 U	67 U	67 U	67 U	67 U	67 U		
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	67 U	67 U	67 U	67 U	67 U	67 U	67 U	67 U	67 U	67 U		

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS
56-55-3	Benzo(a)anthracene	900	ug/kg
205-99-2	Benzo(b)fluoranthene	900	ug/kg
207-08-9	Benzo(k)fluoranthene	9000	ug/kg
50-32-8	Benzo(a)pyrene	650	ug/kg
218-01-9	Chrysene	90000	ug/kg
53-70-3	Dibenz(a,h)anthracene	650	ug/kg
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

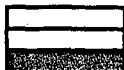
U - Non Detect

J - Estimated Value

D - Diluted Sample Results

Legend

Confirmation Sample >
Documentation Sample below Cleanup Goals >
Documentation Sample above Cleanup Goals >



502177

Confirmation/Documentation Sample Results for the North Area - N13

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	15	16	17	18	19
				FCS-OUS-0145-FTF3-W1-39.00-7	FCS-OUS-0155-N15-W4-40.0-7	FCS-OUS-0154-N14-W1-39.0-7	FCS-OUS-0162-N14-W2-45.0-7	FCS-OUS-0158-N14-W5-39.0-7
				39.80 R. MSL	40.0 R. MSL	39.0 R. MSL	45.0 R. MSL	39.0 R. MSL
				11.4 R. BGS	11.0 R. BGS	12.0 R. BGS	6.0 R. BGS	12.0 R. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	87	87 U	87 U	105	293
205-99-2	Benzo(b)fluoranthene	900	ug/kg	97	87 U	87 U	122	335
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	87 U	87 U	87 U	87 U	105
50-32-6	Benzo(e)pyrene	660	ug/kg	87 U	87 U	87 U	87 U	215
218-01-9	Chrysene	90000	ug/kg	77	87 U	87 U	109	259
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	87 U	87 U	87 U	87 U	87 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	87 U	87 U	87 U	87 U	102

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS
56-55-3	Benzo(a)anthracene	900	ug/kg
205-99-2	Benzo(b)fluoranthene	900	ug/kg
207-08-9	Benzo(k)fluoranthene	9000	ug/kg
50-32-6	Benzo(e)pyrene	660	ug/kg
218-01-9	Chrysene	90000	ug/kg
53-70-3	Dibenz(a,h)anthracene	660	ug/kg
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

D - Diluted Sample Results

Legend

Confirmation Sample >

Documentation Sample below Cleanup Goals >

Documentation Sample above Cleanup Goals >



Confirmation/Documentation Sample Results for the North Area - N14

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	1	2	3
				RUSTIC-S6529C	RUSTIC-S6529D	RUSTIC-S6531C
				43 to 45 ft. MSL	41 to 43 ft. MSL	43 to 45 ft. MSL
				6 to 8 ft. BGS	8 to 10 ft. BGS	6 to 8 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	370 U	360 U	350 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	370 U	360 U	350 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	370 U	360 U	350 U
50-32-8	Benzo(e)pyrene	660	ug/kg	370 U	360 U	350 U
218-01-9	Chrysene	90000	ug/kg	370 U	360 U	350 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	370 U	360 U	350 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	370 U	360 U	350 U

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	1	2	3	4
				FCS-OU3-0151-N14-F1-41.0-7	FCS-OU3-0153-N14-F2-40.8-7	FCS-OU3-0155-N14-F3-37.0-7	FCS-OU3-0160-N14-F4-37.0-7
				41.0 ft. MSL	40.8 ft. MSL	37.0 ft. MSL	37.0 ft. MSL
				10.0 ft. BGS	10.2 ft. BGS	14.0 ft. BGS	14.0 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	67 U	112	84	67 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	67 U	113	67 U	67 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	67 U	67 U	67 U	67 U
50-32-8	Benzo(e)pyrene	660	ug/kg	67 U	83	67 U	67 U
218-01-9	Chrysene	90000	ug/kg	67 U	94	67 U	67 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	67 U	67 U	67 U	67 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	67 U	67 U	67 U	67 U

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

D - Diluted Sample Results

Legend

Confirmation Sample >

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502179

Confirmation/Documentation Sample Results for the North Area - N14

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	3 (continued)		4	
				RUSTIC-S6535C	RUSTIC-S6535D	RUSTIC-S6533B	RUSTIC-S6533C
				43 to 45 ft. MSL	41 to 43 ft. MSL	45 to 47 ft. MSL	43 to 45 ft. MSL
				6 to 8 ft. BGS	8 to 10 ft. BGS	4 to 6 ft. BGS	6 to 8 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	360 U	350 U	360 U	360 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	360 U	350 U	360 U	360 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	360 U	350 U	360 U	360 U
50-32-8	Benzo(a)pyrene	660	ug/kg	360 U	350 U	360 U	360 U
218-01-9	Chrysene	90000	ug/kg	360 U	350 U	360 U	360 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	360 U	350 U	360 U	360 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	360 U	350 U	360 U	360 U

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS
56-55-3	Benzo(a)anthracene	900	ug/kg
205-99-2	Benzo(b)fluoranthene	900	ug/kg
207-08-9	Benzo(k)fluoranthene	9000	ug/kg
50-32-8	Benzo(a)pyrene	660	ug/kg
218-01-9	Chrysene	90000	ug/kg
53-70-3	Dibenz(a,h)anthracene	660	ug/kg
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

D - Diluted Sample Results

Legend

Confirmation Sample >

Documentation Sample below Cleanup Goals >

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Confirmation/Documentation Sample Results for the North Area - N14

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	5	6	7	8
				FCS-OU3-0154-N14-W1-39.0-7	FCS-OU3-0162-N14-W2-45.0-7	FCS-OU3-0163-N14-W3-44.0-7	FCS-OU3-0168-N14-W5-39.0-7
				39.0 ft. MSL	45.0 ft. MSL	44.0 ft. MSL	39.0 ft. MSL
				12.0 ft. BGS	6.0 ft. BGS	7.0 ft. BGS	12.0 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	67 U	105	67 U	293
205-99-2	Benzo(b)fluoranthene	900	ug/kg	67 U	122	67 U	335
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	67 U	67 U	67 U	105
50-32-8	Benzo(a)pyrene	680	ug/kg	67 U	67 U	67 U	215
218-01-9	Chrysene	90000	ug/kg	67 U	109	67 U	259
53-70-3	Dibenz(a,h)anthracene	680	ug/kg	67 U	67 U	67 U	67 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	67 U	67 U	67 U	102

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS
56-55-3	Benzo(a)anthracene	900	ug/kg
205-99-2	Benzo(b)fluoranthene	900	ug/kg
207-08-9	Benzo(k)fluoranthene	9000	ug/kg
50-32-8	Benzo(a)pyrene	680	ug/kg
218-01-9	Chrysene	90000	ug/kg
53-70-3	Dibenz(a,h)anthracene	680	ug/kg
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

D - Diluted Sample Results

Legend

Confirmation Sample >

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502181

Confirmation/Documentation Sample Results for the North Area - N15

SIDEWALL SAMPLES

CASE	COMPOUND	ACG CRITERIA	UNITS	1	2	3	4	5	6
				RUSTIC-88521B	RUSTIC-88521C	RUSTIC-88527B	RUSTIC-88527C	FCS-013-0184-N15-W1-48.9-7	FCS-013-0184-N15-W2-48.9-7
				47 to 49 S. MSL 2 to 4 S. BGS	45 to 47 S. MSL 4 to 6 S. BGS	47 to 49 S. MSL 2 to 4 S. BGS	45 to 47 S. MSL 4 to 6 S. BGS	45 S. S. MSL 6.4 S. BGS	45 S. S. MSL 4.5 S. BGS
55-55-3	Benzo(a)anthracene	800	ug/kg	400 U	210 J	350 U	350 U	67 U	217
205-98-2	Benzo(b)fluoranthene	800	ug/kg	400 U	280 J	350 U	58 J	67 U	300
207-06-9	Benzo(k)fluoranthene	8000	ug/kg	400 U	90 J	350 U	350 U	67 U	105
50-32-8	Benzo(a)pyrene	880	ug/kg	400 U	150 J	350 U	350 U	67 U	177
218-01-8	Chrysene	80000	ug/kg	400 U	180 J	350 U	42 J	67 U	238
53-70-3	Dibenz(a,h)anthracene	880	ug/kg	400 U	370 U	350 U	350 U	67 U	67 U
183-38-6	Indeno(1,2,3-cd)pyrene	800	ug/kg	400 U	67 J	350 U	350 U	67 U	67 U

BOTTOM SAMPLES

CASE	COMPOUND	ACG CRITERIA	UNITS	1	2	3	4
				RUSTIC-88521D	RUSTIC-88528D	RUSTIC-88527D	RUSTIC-88529C
				43 to 45 S. MSL 6 to 8 S. BGS	43 to 45 S. MSL 8 to 8 S. BGS	43 to 45 S. MSL 6 to 8 S. BGS	43 to 45 S. MSL 6 to 8 S. BGS
55-55-3	Benzo(a)anthracene	800	ug/kg	340 U	350 U	350 U	370 U
205-98-2	Benzo(b)fluoranthene	800	ug/kg	340 U	350 U	350 U	370 U
207-06-9	Benzo(k)fluoranthene	8000	ug/kg	340 U	350 U	350 U	370 U
50-32-8	Benzo(a)pyrene	880	ug/kg	340 U	350 U	350 U	370 U
218-01-8	Chrysene	80000	ug/kg	340 U	350 U	350 U	370 U
53-70-3	Dibenz(a,h)anthracene	880	ug/kg	340 U	350 U	350 U	370 U
183-38-6	Indeno(1,2,3-cd)pyrene	800	ug/kg	340 U	350 U	350 U	370 U

*NOTE: All data has been validated

Data Qualifiers:
 ND - No Data
 U - Non Detect
 J - Estimated Value
 D - Diluted Sample Results

Legend

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Confirmation/Documentation Sample Results for the North Area - N16

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	1	2	3	4
				RUSTIC-S6507D	RUSTIC-S6512D	RUSTIC-S6518D	RUSTIC-S6515D
				43 to 45 ft. MSL	43 to 45 ft. MSL	43 to 45 ft. MSL	43 to 45 ft. MSL
				6 to 8 ft. BGS	6 to 8 ft. BGS	6 to 8 ft. BGS	6 to 8 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	350 U	360 U	350 U	350 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	350 U	360 U	350 U	350 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	350 U	360 U	350 U	350 U
50-32-8	Benzo(a)pyrene	660	ug/kg	350 U	360 U	350 U	350 U
218-01-9	Chrysene	90000	ug/kg	350 U	360 U	350 U	350 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	350 U	360 U	350 U	350 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	350 U	360 U	350 U	350 U

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	1	2	3
				RUSTIC-S6506E	RUSTIC-S6506E-D	RUSTIC-S6505E
				41 to 43 ft. MSL	41 to 43 ft. MSL	41 to 43 ft. MSL
				8 to 10 ft. BGS	8 to 10 ft. BGS	8 to 10 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	110 J	160 J	190 J
205-99-2	Benzo(b)fluoranthene	900	ug/kg	170 J	180 J	280 J
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	87 J	79 J	110 J
50-32-8	Benzo(a)pyrene	660	ug/kg	100 J	100 J	160 J
218-01-9	Chrysene	90000	ug/kg	150 J	190 J	200 J
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	360 U	360 U	360 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	360 U	55 J	360 U

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

D - Diluted Sample Results

Legend

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502183

Confirmation/Documentation Sample Results for the North Area - N16

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS
56-55-3	Benzo(a)anthracene	900	ug/kg
205-98-2	Benzo(b)fluoranthene	900	ug/kg
207-08-9	Benzo(k)fluoranthene	9000	ug/kg
50-32-8	Benzo(a)pyrene	860	ug/kg
218-01-9	Chrysene	90000	ug/kg
53-70-3	Dibenz(a,h)anthracene	860	ug/kg
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	3 (continued)	4	5	6
				RUSTIC-S6510E-D	RUSTIC-S6515E	RUSTIC-S6507E	RUSTIC-S6511E
				41 to 43 ft. MSL	41 to 43 ft. MSL	41 to 43 ft. MSL	41 to 43 ft. MSL
				8 to 10 ft. BGS	8 to 10 ft. BGS	8 to 10 ft. BGS	8 to 10 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	350 U	63 J	390	440 U
205-98-2	Benzo(b)fluoranthene	900	ug/kg	350 U	82 J	630	440 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	350 U	32 J	240 J	440 U
50-32-8	Benzo(a)pyrene	860	ug/kg	350 U	45 J	360 J	440 U
218-01-9	Chrysene	90000	ug/kg	350 U	84 J	480	440 U
53-70-3	Dibenz(a,h)anthracene	860	ug/kg	350 U	360 U	70 J	440 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	350 U	360 U	190 J	440 U

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

D - Diluted Sample Results

Legend

Confirmation Sample >

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502184

Confirmation/Documentation Sample Results for the North Area - N17

SIDEWALL SAMPLES

				1	2	3	4	5	
CAS#	COMPOUND	ACG CRITERIA	UNITS	RUSTIC-S6556B	RUSTIC-S6516B	RUSTIC-S6516C	FCS-OU3-0267-N17-W1-47.0-7	FCS-OU3-0125-N22-W1-46.5-7	FCS-OU3-0149-N22-W2-46.4-7
				47 to 49 ft. MSL	45 to 47 ft. MSL	47 to 49 ft. MSL	47.0 ft. MSL	46.5 ft. MSL	46.4 ft. MSL
				2 to 4 ft. BGS	2 to 4 ft. BGS	4 to 6 ft. BGS	4.0 ft. BGS	4.5 ft. BGS	4.6 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	53 J	380 U	83 J	67 U	67 U	67 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	57 J	380 U	130 J	67 U	67 U	91
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	390 U	380 U	49 J	67 U	67 U	67 U
50-32-8	Benzo(a)pyrene	660	ug/kg	390 U	380 U	69 J	67 U	67 U	67 U
218-01-9	Chrysene	90000	ug/kg	65 J	380 U	91 J	67 U	67 U	67 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	390 U	380 U	370 U	67 U	67 U	67 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	390 U	380 U	370 U	67 U	67 U	67 U

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	1	2	3	4	5
				RUSTIC-S6507E	RUSTIC-S6512D	RUSTIC-S6517D	RUSTIC-S6555D	FCS-OU3-0147-N17-F-45.0-7
				41 to 43 ft. MSL 8 to 10 ft. BGS	41 to 43 ft. MSL 8 to 8 ft. BGS	41 to 43 ft. MSL 6 to 8 ft. BGS	41 to 43 ft. MSL 8 to 8 ft. BGS	45.0 ft. MSL 6.0 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	390	360 U	350 U	390 U	67 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	630	360 U	350 U	390 U	67 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	240 J	360 U	350 U	390 U	67 U
50-32-8	Benzo(a)pyrene	660	ug/kg	360 J	360 U	350 U	390 U	67 U
218-01-9	Chrysene	90000	ug/kg	480	360 U	350 U	390 U	67 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	70 J	360 U	350 U	390 U	67 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	190 J	360 U	350 U	390 U	67 U

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

D - Diluted Sample Results

Legend

Confirmation Sample >

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502185

Confirmation/Documentation Sample Results for the North Area - N18

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	1	2	3	4
				RUSTIC-S6556B	RUSTIC-S6557B	RUSTIC-S191A	RUSTIC-S191B
				46 to 48 ft. MSL	46 to 48 ft. MSL	48 to 49 ft. MSL	46 to 48 ft. MSL
				2 to 4 ft. BGS	2 to 4 ft. BGS	1 to 2 ft. BGS	2 to 4 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	53 J	68 J	370 UJ	370 UJ
205-99-2	Benzo(b)fluoranthene	900	ug/kg	57 J	370 U	40 J	370 UJ
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	390 U	370 U	370 U	370 U
50-32-8	Benzo(a)pyrene	660	ug/kg	390 U	370 U	370 U	370 U
218-01-9	Chrysene	90000	ug/kg	65 J	76 J	370 U	370 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	390 U	370 U	370 UJ	370 UJ
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	390 U	370 U	370 U	370 U

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	1	2	3	4
				RUSTIC-S6558C	RUSTIC-S6450C	Rustic-S6059C	Rustic-S6060C
				44 to 46 ft. MSL	44 to 46 ft. MSL	44 to 46 ft. MSL	44 to 46 ft. MSL
				4 to 6 ft. BGS	4 to 6 ft. BGS	4 to 6 ft. BGS	4 to 6 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	360 U	370 U	360 U	190 J
205-99-2	Benzo(b)fluoranthene	900	ug/kg	360 U	370 U	360 U	270 J
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	360 U	370 U	360 U	130 J
50-32-8	Benzo(a)pyrene	660	ug/kg	360 U	370 U	360 U	160 J
218-01-9	Chrysene	90000	ug/kg	360 U	370 U	360 U	200 J
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	360 U	370 U	360 U	370 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	360 U	370 U	360 U	79 J

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

D - Diluted Sample Results

Legend

Confirmation Sample >

Documentation Sample below Cleanup Goals >

Documentation Sample above Cleanup Goals >



502186

Confirmation/Documentation Sample Results for the North Area - N19

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS
56-55-3	Benzo(a)anthracene	900	ug/kg
205-99-2	Benzo(b)fluoranthene	900	ug/kg
207-08-9	Benzo(k)fluoranthene	9000	ug/kg
50-32-8	Benzo(a)pyrene	660	ug/kg
218-01-9	Chrysene	90000	ug/kg
53-70-3	Dibenz(a,h)anthracene	660	ug/kg
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	1	2
				RUSTIC-S6556B	RUSTIC-S6557B
				46 to 48 ft. MSL	46 to 48 ft. MSL
				2 to 4 ft. BGS	2 to 4 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	53 J	68 J
205-99-2	Benzo(b)fluoranthene	900	ug/kg	57 J	370 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	390 U	370 U
50-32-8	Benzo(a)pyrene	660	ug/kg	390 U	370 U
218-01-9	Chrysene	90000	ug/kg	65 J	78 J
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	390 U	370 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	390 U	370 U

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

D - Diluted Sample Results

Legend

Confirmation Sample >

Documentation Sample below Cleanup Goals >

Documentation Sample above Cleanup Goals >



502187

Confirmation/Documentation Sample Results for the North Area - N22

SIDEWALL SAMPLES

CASE#	COMPOUND	ACG CRITERIA	UNITS
56-55-3	Benzo(a)anthracene	900	ug/kg
205-99-2	Benzo(b)fluoranthene	900	ug/kg
207-08-9	Benzo(k)fluoranthene	9000	ug/kg
50-32-8	Benzo(a)pyrene	660	ug/kg
218-01-9	Chrysene	90000	ug/kg
53-70-3	Dibenz(a,h)anthracene	660	ug/kg
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg

BOTTOM SAMPLES

CASE#	COMPOUND	ACG CRITERIA	UNITS	1	2	3	4	5
				RUSTIC-S6522B	RUSTIC-S6527B	RUSTIC-S6530A	RUSTIC-S6554B	RUSTIC-S6553B
				47 to 49 ft. MSL 2 to 4 ft. BGS	47 to 49 ft. MSL 2 to 4 ft. BGS	47 to 49 ft. MSL 2 to 4 ft. BGS	47 to 49 ft. MSL 2 to 4 ft. BGS	47 to 49 ft. MSL 2 to 4 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	380 U	390 U	370 U	360 U	380 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	380 U	390 U	370 U	360 U	380 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	380 U	390 U	370 U	360 U	380 U
50-32-8	Benzo(a)pyrene	660	ug/kg	380 U	390 U	370 U	360 U	380 U
218-01-9	Chrysene	90000	ug/kg	380 U	390 U	370 U	360 U	380 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	380 U	390 U	370 U	360 U	380 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	380 U	390 U	370 U	360 U	380 U

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

D - Diluted Sample Results

Legend

Confirmation Sample >

Documentation Sample below Cleanup Goals >

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502188

Confirmation/Documentation Sample Results for the North Area - N22

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS
56-55-3	Benzo(a)anthracene	900	ug/kg
205-99-2	Benzo(b)fluoranthene	900	ug/kg
207-08-9	Benzo(k)fluoranthene	9000	ug/kg
50-32-8	Benzo(a)pyrene	860	ug/kg
218-01-9	Chrysene	90000	ug/kg
53-70-3	Dibenz(a,h)anthracene	860	ug/kg
183-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	6	7	8	9	10	11	12
				RUSTIC-S6552B	RUSTIC-S6551B	RUSTIC-S6550B	RUSTIC-S6549B	FCS-OU3-0126-N22-F1A-48.9-7	FCS-OU3-0150-N22-F2-49.0-7	FCS-OU3-0147-N17-F-45.0-7
				47 to 49 ft. MSL 2 to 4 ft. BGS	47 to 49 ft. MSL 2 to 4 ft. BGS	47 to 49 ft. MSL 2 to 4 ft. BGS	47 to 49 ft. MSL 2 to 4 ft. BGS	46.9 ft. MSL 4.1 ft. BGS	49.0 ft. MSL 2.0 ft. BGS	45.0 ft. MSL 6.0 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	380 U	400	390 U	370 U	67 U	67 U	67 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	380 U	340 J	390 U	44 J	67 U	126	67 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	380 U	140 J	390 U	370 U	67 U	67 U	67 U
50-32-8	Benzo(a)pyrene	860	ug/kg	380 U	220 J	390 U	36 J	67 U	83	67 U
218-01-9	Chrysene	90000	ug/kg	380 U	380	390 U	370 U	67 U	67 U	67 U
53-70-3	Dibenz(a,h)anthracene	860	ug/kg	380 U	42 J	390 U	370 U	67 U	67 U	67 U
183-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	380 U	100 J	390 U	370 U	67 U	67 U	67 U

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

U - Non Detect

J - Estimated Value

D - Diluted Sample Results

Legend

Confirmation Sample >

Documentation Sample below Cleanup Goals >

Documentation Sample above Cleanup Goals >



502189

SIDEWALL SAMPLES

[illegible]

BOTTOM SAMPLES

[illegible]

CASE	COMPOUND	ACQ CRITERIA	UNITS	10	11	12	13	14	15	16	17
				RVKTC-S6552B 47.0-0.8 R2S 2.4-0.8 R2S	RVKTC-S6552B 47.0-0.8 R2S 2.4-0.8 R2S	RVKTC-S6552B 47.0-0.8 R2S 2.4-0.8 R2S	RVKTC-S6552B 47.0-0.8 R2S 2.4-0.8 R2S	FCI-OUS-2459-1300-P1-08-3-7 47.0-0.8 R2S 2.4-0.8 R2S	FCI-OUS-2459-1300-P1-08-3-7 47.0-0.8 R2S 2.4-0.8 R2S	FCI-OUS-2459-1300-P1-08-3-7 47.0-0.8 R2S 2.4-0.8 R2S	FCI-OUS-2459-1300-P1-08-3-7 47.0-0.8 R2S 2.4-0.8 R2S
205-65-3	Benzo(a)anthracene	800	ng/g	280 U	280 U	280 U	280 U	87 U	87 U	87 U	87 U
205-65-3	Benzo(a)fluoranthene	800	ng/g	280 U	280 U	280 U	280 U	87 U	87 U	87 U	87 U
207-66-9	Benzo(a)fluoranthene	8000	ng/g	280 U	280 U	280 U	280 U	87 U	87 U	87 U	87 U
50-32-4	Benzo(b)fluoranthene	800	ng/g	280 U	280 U	280 U	280 U	87 U	87 U	87 U	87 U
218-61-9	Chrysene	80000	ng/g	280 U	280 U	280 U	280 U	87 U	87 U	87 U	87 U
153-78-9	Fluorene	800	ng/g	280 U	280 U	280 U	280 U	87 U	87 U	87 U	87 U
153-78-9	Fluorene	800	ng/g	280 U	280 U	280 U	280 U	87 U	87 U	87 U	87 U

*NOTE: All data has been validated

Date Qualified:

ND - No Data

U - Non Defect

J - Estimated Value

D - Diluted Sample Results

Legend

Confirmation Sample >

Documentation Sample below Cleanup Goals >

Documentation Sample above Cleanup Goals:



Confirmation/Documentation Sample Results for the North Area - N31

SIDEWALL SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	1	2	3	4
				RUSTIC-S6624B	RUSTIC-S6637B	RUSTIC-S6638A	RUSTIC-S6638B
				47 to 49 ft. MSL 2 to 4 ft. BGS	47 to 49 ft. MSL 2 to 4 ft. BGS	49 to 51 ft. MSL 0 to 2 ft. BGS	47 to 49 ft. MSL 2 to 4 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	360 U	370 U	380 U	360 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	360 U	370 U	380 U	360 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	360 U	370 U	380 U	360 U
50-32-8	Benzo(a)pyrene	660	ug/kg	360 U	370 U	380 U	360 U
218-01-9	Chrysene	90000	ug/kg	360 U	370 U	380 U	360 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	360 U	370 U	380 U	360 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	360 U	370 U	380 U	360 U

BOTTOM SAMPLES

CAS#	COMPOUND	ACG CRITERIA	UNITS	1	2
				RUSTIC-S6625C	RUSTIC-S6626C
				45 to 47 ft. MSL 4 to 6 ft. BGS	45 to 47 ft. MSL 4 to 6 ft. BGS
56-55-3	Benzo(a)anthracene	900	ug/kg	350 U	350 U
205-99-2	Benzo(b)fluoranthene	900	ug/kg	350 U	350 U
207-08-9	Benzo(k)fluoranthene	9000	ug/kg	350 U	350 U
50-32-8	Benzo(a)pyrene	660	ug/kg	350 U	350 U
218-01-9	Chrysene	90000	ug/kg	350 U	350 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	350 U	350 U
193-39-5	Indeno(1,2,3-cd)pyrene	900	ug/kg	350 U	350 U

*NOTE: All data has been validated

Data Qualifiers:

ND - No Data

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J - Estimated Value

D - Diluted Sample Results

Legend

Confirmation Sample >
Documentation Sample below Cleanup Goals >
Documentation Sample above Cleanup Goals >



502191

Confirmation/Documentation Sample Results for the North Area - N32

SIDEWALL SAMPLES

CASE	COMPOUND	ACG CRITERIA	UNITS	1	2	3
				RUSTIC-S8807A 49 to 51 R. MSL 0 to 1 R. BGS	RUSTIC-S8808A 49.5 to 51 R. MSL 0.5 to 1 R. BGS	PCS-002-22-48-M32-W1-50-6-7 50.5 R. MSL 0.5 R. BGS
55-55-3	Benzofluoranthene	800	µg/kg	420	810	87 U
205-05-2	Benzofluoranthene	800	µg/kg	870	800	87 U
107-05-8	Benzofluoranthene	8000	µg/kg	250 J	1900	87 U
80-31-8	Benzofluoranthene	860	µg/kg	380	370	87 U
118-01-8	Chrysene	80000	µg/kg	410	870	87 U
63-70-3	Dibenzofluoranthene	880	µg/kg	370 U	370 U	87 U
183-39-8	Indeno(1,2,3-cd)pyrene	800	µg/kg	340 J	430	87 U

BOTTOM SAMPLES

BOTTOM SAMPLES				1												2												3												4												5												6												7											
CASE	COMPOUND	ACG CRITERIA	UNITS	RUSTIC-S8808B		RUSTIC-S8808C		RUSTIC-S8808C-D		RUSTIC-S8807D		RUSTIC-S8807C		RUSTIC-S8807C-D		RUSTIC-S8803B		RUSTIC-S8804A		RUSTIC-S8808A		RUSTIC-S8815A		RUSTIC-S8815A-D		RUSTIC-S8814B		RUSTIC-S8814B																																																											
				47 to 49 R. MSL	2 to 4 R. BGS	47 to 49 R. MSL	2 to 4 R. BGS	47 to 49 R. MSL	2 to 4 R. BGS	47 to 49 R. MSL	2 to 4 R. BGS	47 to 49 R. MSL	2 to 4 R. BGS	47 to 49 R. MSL	2 to 4 R. BGS	47 to 49 R. MSL	2 to 4 R. BGS	47 to 49 R. MSL	2 to 4 R. BGS	47 to 49 R. MSL	2 to 4 R. BGS	47 to 49 R. MSL	2 to 4 R. BGS	47 to 49 R. MSL	2 to 4 R. BGS	47 to 49 R. MSL	2 to 4 R. BGS	47 to 49 R. MSL	2 to 4 R. BGS	47 to 49 R. MSL	2 to 4 R. BGS																																																								
55-55-3	Benzofluoranthene	800	µg/kg	350 U	340 U	350 U	340 U	350 U	340 U	350 U	340 U	350 U	340 U	350 U	340 U	370 U	370 U	350 U	340 U	350 U	340 U	350 U	340 U	350 U	340 U	350 U	340 U	350 U	340 U	350 U	340 U																																																								
205-05-2	Benzofluoranthene	800	µg/kg	350 U	340 U	350 U	340 U	350 U	340 U	350 U	340 U	350 U	340 U	350 U	340 U	370 U	370 U	350 U	340 U	350 U	340 U	350 U	340 U	350 U	340 U	350 U	340 U	350 U	340 U	350 U	340 U																																																								
107-05-8	Benzofluoranthene	8000	µg/kg	350 U	340 U	350 U	340 U	350 U	340 U	350 U	340 U	350 U	340 U	350 U	340 U	370 U	370 U	350 U	340 U	350 U	340 U	350 U	340 U	350 U	340 U	350 U	340 U	350 U	340 U	350 U	340 U																																																								
80-31-8	Benzofluoranthene	860	µg/kg	350 U	340 U	350 U	340 U	350 U	340 U	350 U	340 U	350 U	340 U	350 U	340 U	370 U	370 U	350 U	340 U	350 U	340 U	350 U	340 U	350 U	340 U	350 U	340 U	350 U	340 U	350 U	340 U																																																								
118-01-8	Chrysene	80000	µg/kg	350 U	340 U	350 U	340 U	350 U	340 U	350 U	340 U	350 U	340 U	350 U	340 U	370 U	370 U	350 U	340 U	350 U	340 U	350 U	340 U	350 U	340 U	350 U	340 U	350 U	340 U	350 U	340 U																																																								
63-70-3	Dibenzofluoranthene	880	µg/kg	350 U	340 U	350 U	340 U	350 U	340 U	350 U	340 U	350 U	340 U	350 U	340 U	370 U	370 U	350 U	340 U	350 U	340 U	350 U	340 U	350 U	340 U	350 U	340 U	350 U	340 U	350 U	340 U																																																								
183-39-8	Indeno(1,2,3-cd)pyrene	800	µg/kg	350 U	340 U	350 U	340 U	350 U	340 U	350 U	340 U	350 U	340 U	350 U	340 U	370 U	370 U	350 U	340 U	350 U	340 U	350 U	340 U	350 U	340 U	350 U	340 U	350 U	340 U	350 U	340 U																																																								

*NOTE: All data has been validated

Data Qualifiers:
 ND - No Data
 U - Non Detect
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 D - Dusted Sample Results

Legend

Confirmation Sample >
 Documentation Sample below Cleanup Goals >
 Documentation Sample above Cleanup Goals >



Confirmation/Documentation Sample Results for the North Area - N33

SIDEWALL SAMPLES

CASE	COMPOUND	ACG CRITERIA	UNITS	1	2	3	4	5
				RUSTIC-S6602B	RUSTIC-S6602C	RUSTIC-S6603B	RUSTIC-S6603C	RUSTIC-S6603C-D
				47 to 49 R. MSL	45 to 47 R. MSL	47 to 49 R. MSL	45 to 47 R. MSL	45 to 47 R. MSL
				2 to 4 R. BGS	4 to 6 R. BGS	2 to 4 R. BGS	4 to 6 R. BGS	4 to 6 R. BGS
55-55-3	Benzo(a)anthracene	800	ug/kg	350 U	350 U	370 U	340 U	340 U
205-99-2	Benzo(b)fluoranthene	800	ug/kg	350 U	350 U	370 U	340 U	340 U
207-08-9	Benzo(k)fluoranthene	8000	ug/kg	350 U	350 U	370 U	340 U	340 U
50-32-6	Benzo(a)pyrene	660	ug/kg	350 U	350 U	370 U	340 U	340 U
218-01-9	Chrysene	80000	ug/kg	350 U	350 U	370 U	340 U	340 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	350 U	350 U	370 U	340 U	340 U
193-39-5	Indeno(1,2,3-cd)pyrene	800	ug/kg	350 U	350 U	370 U	340 U	340 U

BOTTOM SAMPLES

CASE	COMPOUND	ACG CRITERIA	UNITS	1	2	3	4
				RUSTIC-S6601D	RUSTIC-S6602D	RUSTIC-S6603D	RUSTIC-S6634C
				43 to 45 R. MSL	43 to 45 R. MSL	43 to 45 R. MSL	43 to 45 R. MSL
				6 to 8 R. BGS	6 to 8 R. BGS	6 to 8 R. BGS	6 to 8 R. BGS
55-55-3	Benzo(a)anthracene	800	ug/kg	340 U	350 U	340 U	350 U
205-99-2	Benzo(b)fluoranthene	800	ug/kg	340 U	350 U	340 U	350 U
207-08-9	Benzo(k)fluoranthene	8000	ug/kg	340 U	350 U	340 U	350 U
50-32-6	Benzo(a)pyrene	660	ug/kg	340 U	350 U	340 U	350 U
218-01-9	Chrysene	80000	ug/kg	340 U	350 U	340 U	350 U
53-70-3	Dibenz(a,h)anthracene	660	ug/kg	340 U	350 U	340 U	350 U
193-39-5	Indeno(1,2,3-cd)pyrene	800	ug/kg	340 U	350 U	340 U	350 U

*NOTE: All data has been validated

Data Qualifiers:
 ND - No Data
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 J - Estimated Value
 D - Diluted Sample Results

Legend

Confirmation Sample >
 Documentation Sample below Cleanup Goals >
 Documentation Sample above Cleanup Goals >



502193



LEGEND

- 38 — FINAL EXCAVATION CONTOURS
- — — — — PROPERTY LINES
- — — — — CURB LINE
- XXXXX CONFIRMATION SAMPLE
- XXXXX DOCUMENTATION SAMPLE BELOW CLEANUP GOAL
- XXXXX DOCUMENTATION SAMPLE ABOVE CLEANUP GOAL
- XXXXX BORING ABOVE CLEANUP GOAL

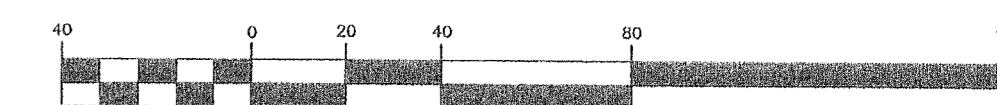
SOUTHWEST AREA
SHEET 2 OF 4

CANAL AREA
SHEET 3 OF 4

CENTRAL AREA
SHEET 3 OF 4

NORTH AREA
SHEET 4 OF 4

GRAPHIC SCALE



(IN FEET)
1 inch = 40 ft.

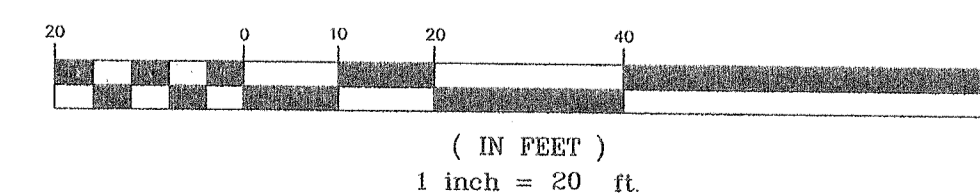


LEGEND

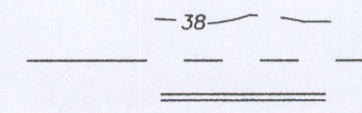
FINAL EXCAVATION CONTOURS
PROPERTY LINES
CURB LINE

CONFIRMATION SAMPLE
DOCUMENTATION SAMPLE BELOW CLEANUP GOAL
DOCUMENTATION SAMPLE ABOVE CLEANUP GOAL
BORING ABOVE CLEANUP GOAL

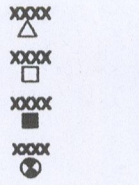
GRAPHIC SCALE



LEGEND



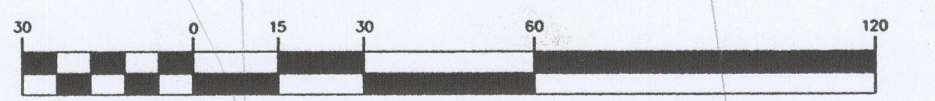
FINAL EXCAVATION CONTOURS
PROPERTY LINES
CURB LINE



CONFIRMATION SAMPLE
DOCUMENTATION SAMPLE BELOW CLEANUP GOAL
BORING ABOVE CLEANUP GOAL



GRAPHIC SCALE



(IN FEET)
1 inch = 30 ft



US Army Corps
of Engineers

CONFIRMATION AND DOCUMENTATION
SAMPLE LOCATIONS
OU3 - RUSTIC MALL, NORTH AREA
FEDERAL CREOSOTE SUPERFUND SITE
BOROUGH OF MANVILLE, SOMERSET COUNTY, N.J.
Sheet 4 of 4

E

Appendix

E

Appendix E

Sevenson Environmental Services, Inc.

- **INSPECTION SUMMARY FORM**
- **SITE INSPECTION FORM**

Sevenson Environmental Services, Inc. Health and Safety Site Inspection Form

Inspector: Paul Hitcho, Sam Tavelaris Inspection Date 04/14/2005

Section 1: Project Description

Project Name: Federal Creosote Superfund Site

Site Location: Manville, New Jersey

Project Number: G210/ 212

Project Manager: Gordon McDonald

Superintendent: Perry Novak

Site Safety and Health Officer (SSHO): Eric Tschudi and Davis Raver

Operations:

☐ Industrial Operations

☒ Remedial Operations

☒ Dewatering Operations

☐ Drum Handling Operations

☒ Drilling Operations

☐ Other: _____

☒ Emergency Response

☒ Excavation/Trenching/Shoring

☒ Confined Space Entry

☐ Thermal Desorption Operations

☒ Decontamination Operations

Section 2: General Site Setup/Support Zone

A. Site Setup

- | | | | |
|---|---|-----------------------------|------------------------------|
| 1. Are work zones clearly defined? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 2. Are support trailers located to minimize exposure from a potential release? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 3. Are support trailers accessible for approach by emergency vehicles? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 4. Is the site properly secured during and after work hours? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 5. Are adequate communications (telephones, radios) available on site? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 6. Is drinking water available? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 7. Are adequate toilet facilities available on site? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 8. Are eating and food storage areas clean and maintained? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 9. Is there adequate lighting? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 10. Are Lock-Out/Tag-Out Kits available on site? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 11. Do all site personnel have a 40 hour certificate? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 12. Do Managers and/or Supervisors have a certificate for the 8 hours of additional training? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |

- | | | | |
|--|---|-----------------------------|------------------------------|
| 13. Have all site personnel received medical surveillance in the previous 12 months? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 14. Are disposal arrangements in place for spent PPE and decontamination wash waters? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 15. Is all of the emergency and first aid equipment that is identified in the Site HASP available on site? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 16. Does the SS HO conduct daily safety inspections which are documented to identify safety hazards and unsafe conditions? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 17. Are accident /injury investigation forms available? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 18. Are all known safety hazards and unsafe conditions corrected? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |

B. Health and Safety Plan

- | | | | |
|--|---|-----------------------------|------------------------------|
| 1. Is a Site HASP accessible to all employees? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 2. Has the Site HASP been briefed to employees on site? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 3. Are the MSDSs available for review by employees on site? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 4. Is there a designated SSO on site? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 5. Are employees aware and understand the results of exposure? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 6. Is the air monitoring plan in place? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 7. Are air monitoring devices properly used, calibrated and maintained? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 8. Are air monitoring results logged and available for review? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 9. Does the Site HASP include the following: | | | |
| • Site Characterization, description of existing conditions. | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| • Personnel training requirements. | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| • A written PPE program describing the types and usage. | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| • Listing of PPE required for each site task. | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| • Is there a hazard/risk analysis for all site activities? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| • Are the frequency and types of air monitoring presented? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| • Are both personnel and equipment decontamination procedures presented? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| • Is an emergency response plan presented? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| • Are the medical surveillance requirements presented? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| • Has the nearest medical assistance been identified? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| • Is there a discussion of site control measures (i.e., fencing, security, work zones)? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| • Description of confined space entry procedures (if this work will occur). | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| • Has a spill containment program been included? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| • Is the Severson Corporate HASP available for all pertinent activities? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| • Are the programs and procedures presented in the Site and Corporate HASP being followed? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| • Have site personnel received training as outlined in the Site HASP? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |

C. Site Posters

- | | | | |
|---|---|-----------------------------|------------------------------|
| 1. Are the following documents posted in a prominent and accessible area? | | | |
| <input type="checkbox"/> Department of Labor 5 - 1 Poster | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| <input type="checkbox"/> OSHA 300 Log | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |

D. Emergency Plans

- | | | | |
|--|---|-----------------------------|------------------------------|
| 1. Are emergency telephone numbers posted and verified? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 2. Have emergency escape routes been designated? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 3. Are employees familiar with the emergency signals? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 4. Is the hospital route posted? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 5. Are employees familiar with emergency procedures? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 6. Is the inventory of emergency response equipment and supplies adequate? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |

E. Medical and First Aid

- | | | | |
|--|---|-----------------------------|------------------------------|
| 1. Are First Aid Kits accessible and identified? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 2. Are emergency eye washes available and in proper working order? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 3. Are emergency showers available? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 4. Are the First Aid Kits large enough for the number of people on site? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 5. Are the First Aid Kits inspected after each use? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 6. Are there First Aid/CPR trained personnel available? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 7. Is a heat/cold stress monitoring program in place? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 8. Have First Aid/CPR trained personnel received Blood Borne Pathogen training? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 9. Have First Aid/CPR trained personnel been offered the Hepatitis B Vaccination shot? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 10. Is there a written record of available if the Employee declines the shot? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |

F. Fire Protection

- | | | | |
|--|---|-----------------------------|------------------------------|
| 1. Has a fire alarm been established? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 2. Do employees know the location and use of all fire extinguishers on site? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 3. Are fire extinguishers marked and inspected monthly? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 4. Are combustible materials segregated from open flames? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |

G. Fire Prevention

- | | | | |
|--|---|-----------------------------|---|
| 1. Has a smoking policy been established? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 2. Is smoking prohibited in flammable storage areas? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 3. Are fire lanes established and maintained? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 4. Are flammable dispensing systems grounded and bonded? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 5. Are proper receptacles (i.e., safety cans, cabinets) available for the storage of flammables? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 6. Are gasoline cans of the proper type (not plastic?) | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 7. Has the local fire department been contacted? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 8. Is ground and bonding equipment available? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 9. Are fuel tanks properly contained with a dike? | <input type="checkbox"/> YES | <input type="checkbox"/> NO | <input checked="" type="checkbox"/> N/A |
| 10. Is the dike capable of holding quantities being contained? | <input type="checkbox"/> YES | <input type="checkbox"/> NO | <input checked="" type="checkbox"/> N/A |

Section 3: Work Areas/Contamination Reduction Zone/Exclusion Zone

H. Walking and Working Surfaces

- | | | | |
|--|---|-----------------------------|------------------------------|
| 1. Are accessways, stairways, ramps, and ladders clean of ice, mud, snow, or debris? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 2. Are ladders within maximum length requirements? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 3. Are ladders properly barricaded if used in passageways, doors, or driveways? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 4. Are broken or damaged ladders tagged and taken out of service? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 5. Are metal ladders prohibited in electrical service areas? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 6. Are stairways and floor openings guarded? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 7. Are safety feet installed on straight and extension ladders? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 8. Is general housekeeping up to our standards? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 9. Are fall protection devices available on site? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 10. Are fall protection devices properly used and maintained? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 11. Are ladders secured when in use? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 12. Is there a written Fall Protection Plan? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 13. Have employees received training in Fall Protection? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |

I. Materials Handling

- | | | | |
|--|---|-----------------------------|------------------------------|
| 1. Are materials stacked and stored as to prevent sliding or collapsing? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 2. Are flammables and combustibles stored in non-smoking areas? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 3. Is machinery braced and lock-out/tag-out procedures in place? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 4. Are tripping hazards labeled? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 5. Are riders prohibited on materials handling equipment? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 6. Are OSHA approved manlifts provided for the lifting of personnel? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 7. Are all containers labeled as to contents? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 8. Are flammable liquids stored in approved safety cans? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 9. Are hoses secured and in good condition? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 10. If powered industrial trucks or fork lifts including "off road" forklifts are used, have operators been certified? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |

J. Hand and Power Tools

- | | | | |
|--|---|-----------------------------|------------------------------|
| 1. Are defective hand and power tools tagged and taken out of service? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 2. Is eye protection available and used when operating power tools? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 3. Are guards and safety devices in place on power tools? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 4. Are hand and power tools inspected before each use? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 5. Are spark-resistant tools available? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 6. Are extension cords in good repair? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |

K. Slings and Chains

☐ N/A

- | | | | |
|---|---|-----------------------------|------------------------------|
| 1. Are damaged slings, chains, and rigging tagged and taken out of service? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 2. Are slings inspected before each use? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 3. Are slings padded or protected from sharp corners? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |

4. Do employees keep clear of suspended loads?

☒ YES ☐ NO ☐ N/A

L. Personal Protective Equipment (PPE)

1. Have levels of PPE been established?

☒ YES ☐ NO ☐ N/A

2. Do all employees know their level of protection?

☒ YES ☐ NO ☐ N/A

3. Have respirator wearers been fit tested in the past year?

☒ YES ☐ NO ☐ N/A

4. Are respirators used, decontaminated, inspected, and stored according to standard procedures?

☒ YES ☐ NO ☐ N/A

5. Is defective PPE tagged?

☒ YES ☐ NO ☐ N/A

6. Does compressed breathing air meet CGA Grade "D" minimum?

☐ YES ☐ NO ☒ N/A

7. Are airlines monitored and protected?

☐ YES ☐ NO ☒ N/A

8. Are there sufficient quantities of safety equipment and repair parts?

☐ YES ☐ NO ☒ N/A

9. Is PPE and respiratory equipment properly used and maintained?

☐ YES ☐ NO ☒ N/A

10. Is hearing protection available for high noise?

☒ YES ☐ NO ☐ N/A

11. Is all PPE that has been used either disposed of or thoroughly cleaned prior to removal from any exclusion zone?

☒ YES ☐ NO ☐ N/A

12. Is there an adequate supply of PPE available?

☒ YES ☐ NO ☐ N/A

13. Are donning and doffing procedures identified?

☒ YES ☐ NO ☐ N/A

14. If SCBAs are on site, are they being inspected at least monthly?

☐ YES ☐ NO ☒ N/A

M. Electrical

1. Are warning signs exhibited on high voltage equipment (>250V)?

☒ YES ☐ NO ☐ N/A

2. Is electrical equipment and wiring properly guarded?

☒ YES ☐ NO ☐ N/A

3. Are electrical lines, extension cords, and cables guarded and maintained in good condition?

☒ YES ☐ NO ☐ N/A

4. Are extension cords kept out of wet areas?

☒ YES ☐ NO ☐ N/A

5. Is damaged electrical equipment tagged and taken out of service?

☒ YES ☐ NO ☐ N/A

6. Have underground electrical lines and utilities been identified by proper authorities?

☒ YES ☐ NO ☐ N/A

7. Are qualified electricians only allowed to work on electrical systems?

☒ YES ☐ NO ☐ N/A

8. Are lock-out/tag-out procedures in place when working with electrical systems?

☒ YES ☐ NO ☐ N/A

9. Are ground fault interrupter circuits used on all outdoor electrical hook-ups?

☒ YES ☐ NO ☐ N/A

10. Have the GFCIs been tested?

☒ YES ☐ NO ☐ N/A

11. Are there any open, exposed electrical panels on site?

☐ YES ☐ NO ☒ N/A

N. Compressed Gas Cylinders

☐ N/A

1. Are breathing air cylinders charged only to prescribed pressures?

☐ YES ☐ NO ☒ N/A

2. Are like cylinders segregated in well ventilated areas?

☐ YES ☐ NO ☒ N/A

3. Is smoking prohibited in cylinder storage areas?

☒ YES ☐ NO ☐ N/A

4. Are cylinders stored securely and upright?

☒ YES ☐ NO ☐ N/A

5. Are cylinders protected from snow, rain, etc.?

☐ YES ☒ NO ☐ N/A

6. Are cylinder caps in place before cylinders are moved?

☒ YES ☐ NO ☐ N/A

7. Are fuel gas and O2 cylinders stored a minimum of 20 feet apart?

☒ YES ☐ NO ☐ N/A

O. Scaffolding☐ N/A

- | | | | |
|--|---|--|------------------------------|
| 1. Is scaffolding placed on a flat, firm surface? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 2. Are scaffolding planks free of mud, ice, grease, etc.? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 3. Is scaffolding inspected before each use? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 4. Are defective scaffolding parts taken out of service? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 5. Does scaffold height exceed 4 times the width or base dimension? | <input type="checkbox"/> YES | <input checked="" type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 6. Does scaffold planking overlap a minimum of 12 inches? | <input type="checkbox"/> YES | <input checked="" type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 7. Does scaffold planking extend over end supports between 6 to 18 inches? | <input type="checkbox"/> YES | <input checked="" type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 8. Are employees restricted from working on scaffold during storms and high winds? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 9. Are all pins in place and wheels locked? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |

P. Personnel Decontamination☐ N/A

- | | | | |
|--|---|-----------------------------|---|
| 1. Are decontamination stations set-up on site? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 2. Is a contamination reduction zone set-up on site? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 3. Are waste receptacles available for contaminated PPE? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 4. Are steps taken to contain liquids used for decon? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 5. Have decontamination steps and procedures been covered by the SSHO in site briefings? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 6. Is all PPE and respiratory equipment cleaned daily? | <input type="checkbox"/> YES | <input type="checkbox"/> NO | <input checked="" type="checkbox"/> N/A |

Q. Equipment Decontamination☐ N/A

- | | | | |
|--|---|-----------------------------|------------------------------|
| 1. Has an equipment decon been established? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 2. Is contaminated wash water properly contained and disposed of? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 3. Are all pieces of equipment inspected for proper decontamination before leaving site? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 4. Are all pieces of equipment being cleaned per HASP? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |

R. Welding and Cutting☐ N/A

- | | | | |
|--|---|-----------------------------|------------------------------|
| 1. Are fire extinguishers present at welding operations? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 2. Are confined spaces such as tanks, tested prior to welding? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 3. Are Hot Work Permits available? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 4. Are proper gloves, helmets, aprons available for welding? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 5. Are welding machines properly grounded? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 6. Are spare oxygen and gas cylinders stored a minimum of 20 feet apart when not in use? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 7. Are only trained personnel permitted to operate welding and cutting equipment? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 8. Are welding screens available for use? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |

S. Excavation, Trenching, and Shoring ☐ N/A

- | | | | |
|---|---|-----------------------------|------------------------------|
| 1. Are employee protection systems in place to protect employees? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 2. Are guardrails or fences placed around excavations near pedestrian or vehicle thoroughfares? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 3. Are utilities located and marked? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 4. Are ladders used in trenches over 4 feet deep? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 5. Is material excavated placed a minimum of 2 feet from the excavation? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 6. Is a competent person designated for the excavation? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |

T. Confined Spaces ☐ N/A

- | | | | |
|--|---|-----------------------------|------------------------------|
| 1. Have employees been trained in the hazards of CS? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 2. Are CS entry permits available on site? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 3. Is a CS rescue team (on or off site) available? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 4. Are CS entry procedures being followed? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |

U. Radiation ☒ N/A

- | | | | |
|---|------------------------------|-----------------------------|------------------------------|
| 1. Have employees been trained in the hazards of radiation or received Radiation Worker Training? | <input type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 2. Is the NRC Form 3 or Agreement State equivalent posted? | <input type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 3. Does the site possess radiation detection instrumentation? | <input type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 4. Has the instrumentation been calibrated in the past 12 months? | <input type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 5. Are the calibration papers on file for the instruments on site? | <input type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 6. Is dosimetry issued at the site? | <input type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 7. Has NRC Form 4 been completed for individuals' assigned dosimetry? | <input type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 8. Are routine radiological surveys conducted in offices and break rooms? | <input type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 9. Air monitoring program established? | <input type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 10. Have Radioactive Source Instruments been leaked checked in the past six months? | <input type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 10. Do Radioactive Source Instruments have proper postings posted at storage locations? | <input type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 11. Has a public dose exposure estimate been performed for Radioactive Source Instrument storage areas? | <input type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| If "yes" is annual dose to the public less than 100 mrem/yr? | | | |
| | <input type="checkbox"/> YES | <input type="checkbox"/> NO | |

Section 4: Equipment/Vehicles

V. Motor Vehicles

- | | | | |
|--|---|-----------------------------|------------------------------|
| 1. Are vehicles inspected before each use? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 2. Are persons licensed or certified for the equipment they operate? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 3. Are unsafe vehicles tagged and reported to supervision? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 4. Are vehicles shut down before fueling? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 5. When backing vehicles, are spotters provided? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 6. Is safety equipment on vehicles? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 7. Are loads secure on vehicles? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |

W. Heavy Equipment

- | | | | |
|--|---|-----------------------------|---|
| 1. Is heavy equipment inspected before each use? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 2. Is defective equipment tagged and taken out of service? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 3. Are project roads and structures inspected for load capacities and proper clearances? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 4. Is heavy equipment shut down for fueling and maintenance? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 5. Are back-up alarms installed and working on equipment? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 6. Have Operators been properly trained to operate the equipment they are using? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 7. Are riders prohibited on heavy equipment? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 8. Are guards and safety devices in place and used? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 9. Are barriers set up to prevent personnel from entering the area within the swing radius of track equipment? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| <hr/> | | | |
| 10. If not, are warning signs posted on both sides and the rear of track equipment warning employees to stay out of the swing radius and have site personnel been trained to stay out of the swing radius areas? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 11. Are annual inspection reports for all cranes available on site? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| 12. In Michigan, are annual inspection reports for all track excavators available on site? | <input type="checkbox"/> YES | <input type="checkbox"/> NO | <input checked="" type="checkbox"/> N/A |

Item No.

PAGE 10 OF 10

Sevenson Environmental Services, Inc.

Health and Safety Inspection Summary Form

Inspection Date: _____ Inspector: _____

Site: _____

Project Manager: _____

Superintendent: _____

Site Safety and Health Officer: _____

OPERATIONS REVIEWED:

Corrective Measures Required?

☐ Yes

☐ No

If Yes, please briefly describe issues and suggested corrective measure(s). See completed Site Inspection Form for details.

Date Prepared

Inspector Signature

Distribution: Director of Health and Safety (Paul Hitcho VP, Ph.D., CIH)
Project Manager (_____)
Superintendent (_____)
Health and Safety Officer (_____)

SUBJECT: Federal Creosote: 2004 Health and Safety Audit
Summary and Discussion

1. On December 8-9, 2004 Mr. Raymond Lo, US Army Corps of Engineers New York District (CENAN) completed a detailed health and safety field audit of construction operations at the Federal Creosote Superfund Site. The intent of the audit was to document the Contractor's, Severson Environmental Services' (SES), health and safety performance as specified in the contract; provide documentation to assist in assigning an appropriate contractor health and safety performance rating; and provide opportunity to exchange information and experiences on ways to improve quality and performance. The results of this audit are to be used in conjunction with additional information collected by CENAN site project managers and Safety Office personnel.
2. I would like to thank site personnel for their cooperation in completing the audit efficiently, specifically Mr. Eric Tschudi and Mr. Davis Raver, Jr. The significant efforts of all site personnel (USEPA, SES and USACE) were evident and directly contributed to the positive findings of the audit.
3. The audit utilized a prepared checklist that was provided to the Contractor prior to the site visit. The checklist focused on record keeping and action items stated in the Contractor's current versions of the Site Specific Safety and Health Plan (SSHP), SSHP Amendments, and the Ambient Air Monitoring Plan (AAMP). For each checklist item includes a reference to these site plans, the contact specification, or Federal regulation are included. Findings and recommendations have been subjectively ranked on the checklist (last column) to assist in prioritizing corrective action.
4. A summary of findings, observations, and recommendations is included on the attached checklist. For each item with a comment, the field observation is italicized and follows a "X" symbol.
5. Overall the excellent performance found during the previous audit of the site continues. The program was found to be in compliance with contract health and safety requirements. The teamwork between the contractor, USEPA, and USACE personnel continue to enhance the effectiveness of the site safety and health program.
6. To date, the contractor has achieved over 358,000 man-hours without a lost-time injury. This achievement could be attributed to the continued efforts by site personnel an effective participation and involvement of safety personnel into the day-to-day site operations and planning.
7. Along with maintaining last year's performance level, the program has also improved. There is an increased level of trust and

communication between the health and safety staff and the union work force, tailgate talks are currently conducted to facilitate two way communication, this enables the health and safety staff to address issues in an open forum in addition to sharing best management practices and lessons learned.

8. Please contact me at (212)264-9050 or via email at raymond.lo@usace.army.mil if you have any questions or concerns related to this audit.

SIGNED

Raymond Lo
Industrial Hygienist
CENAN - SA

QUALITY CONTROL HEALTH AND SAFETY CHECKLIST

Federal/American Creosote SSHP OU-1 Phase 1 v. 28-FEB-2002
Federal Creosote AMP OU-1; 2; and Phase 2.03 JUN 2003
SSHP Addendum 27 JAN 2003

Date: December 8-9, 2004

Safety and Health Issues to be Verified

Yes No NA Rank

1. Current version of the SSHP present onsite and available to all site workers? [1926.65 (b)(4)] ☒ Yes ☐ No ☐ NA
☒ Available in site trailers and work vehicles.
2. Do site personnel have current documented training in:
 - ◇ 40 Hour HAZWOPER? [1926.65 (e)(3)] Documented onsite? (SSHP7.0) ☒ Yes ☐ No ☐ NA
Reviewed documentation for the following personnel – Frank Manarino (Laborer) and Richard Hamlette (Laborer)
 - ◇ 8-Hour Annual HAZWOPER Refresher? ☒ Yes ☐ No ☐ NA
 - ◇ 2-persons CPR/First Aid? (385 03.A.02) (SSHP7.0) ☒ Yes ☐ No ☐ NA
Reviewed Eric Tschundi's training certification, there are four other employees on location that are CPR/First Aid certified
 - ◇ 8-Hour Hazardous Waste Site Supervisor? [1926.65 (e)(4)] ☒ Yes ☐ No ☐ NA
Reviewed Brian Shanahan's certification
 - ◇ Medical Surveillance Certificates submitted to CO for all employees in EZ? (SSHP5.0) ☒ Yes ☐ No ☐ NA
Reviewed documentation for the following personnel – Frank Manarino (Laborer) and Richard Hamlette (Laborer)
 - ◇ Site-specific training documentation onsite and submitted to CO? (SSHP7.2) ☒ Yes ☐ No ☐ NA
All files contain required: Training Acknowledgment Form
 - ◇ MSDSs available in Site trailer and submitted to CO? (SSHP7.2) ☒ Yes ☐ No ☐ NA
Located in health and safety trailer
 - ◇ Training on new MSDSs completed and documented? (SSHP7.2) ☒ Yes ☐ No ☐ NA
Initial site briefing includes general training. MSDS specific training is included in tailgate sessions.
 - ◇ Tailgate safety meetings held daily and documented? (SSHP7.2) ☒ Yes ☐ No ☐ NA
Reviewed Motor vehicle talk (10/11/04) and Safe winter walking (12/7/04)
 - ◇ Visitor training completed and documented? (SSHP7.3) ☒ Yes ☐ No ☐ NA
Reviewed Jennifer Gurdak training records (11/9/04)
 - ◇ Subcontractor training on requirements of the SSHP? (SSHP8.0) ☒ Yes ☐ No ☐ NA
Preparatory work meeting with subcontractors prior to the start of work
3. Is an AED available onsite and readily available for use by trained site personnel? ☒ Yes ☐ No ☐ NA
Recommend: Address the use and policies related to the AED in the SSHP.
4. Contract mechanism requiring Subcontractors to follow the approved SSHP? (SSHP 8.0) ☒ Yes ☐ No ☐ NA
Reviewed purchase order for Elite Landscaping and Bennett environmental, both have contract language stating compliance with SSHP
5. Monitoring for cold stress at temperatures below 40 degrees? (SSHP10.0) ☐ Yes ☐ No ☒ NA
6. Hearing protection used by equipment operators and helpers? (SSHP11.0) ☒ Yes ☐ No ☐ NA
7. Full body wash if full-body protective clothing is used? (SSHP 12.1 c) ☐ Yes ☐ No ☒ NA
Full shower available if needed
8. SSHP informed of over-the-counter drug use? (SSHP12.2) ☒ Yes ☐ No ☐ NA
9. Hot Work Permit, signed by SSHP, obtained before initiating cutting or welding? (SSHP8.0 1. a) ☒ Yes ☐ No ☐ NA

QUALITY CONTROL HEALTH AND SAFETY CHECKLIST

Safety and Health Issues to be Verified

	<u>Yes</u>	<u>No</u>	<u>NA</u>	<u>Rank</u>
10. Fire Watch assigned for all Hot Work? (SSHP8.0 1. a) <i>ⓧ There is a line item on the hot work permit for a fire watch to be assigned</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
11. Fire extinguishers inspected and tagged monthly? (SSHP8.0 1. b) <i>ⓧ An excel list of all fire extinguishers is maintained with the SHO</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
12. Heavy equipment inspected by the operator prior to use? (SSHP8.0 d)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
13. Site inspected by the SSHO daily? (SSHP 8.0 g) (SSHP17.0 2 c) and submitted to CO? (SSHP23.0 3) <i>ⓧ Detailed on the daily report</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
14. During excavation activities that utilize shoring, is the support system inspected daily for misalignment, cracking, or bulging? And documented? (Amend 23 JAN 03)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
15. Eating, drinking, smoking, chewing gum, and make-up prohibited in contaminated areas? (SSHP12.0 a)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
16. Hands and face washed prior to leaving work area before eating, drinking, urinating, or other activities? (SSHP12. b)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
17. Personnel wearing respiratory protection?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
◊ Fit Tested? (SSHP13.0)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
◊ Individually assigned respirators? (SSHP13.0)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
◊ Adequate storage provided? (CFR 1910.134 h 2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
◊ Cartridges changed out daily? (SSHP13.0 4 d)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
18. Confined space permit obtained as required? (SSHP14.0 12)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
19. Perimeter signage present? (SSHP15.0 1)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
20. Work Zones clearly delineated? (SSHP15.0 2.0)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
21. EZ Delineated with orange fencing and warning signs? (SSHP15.0 2 a 1)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
22. CRZ delineated using flagging and stakes? (SSHP15.0 2 a 1)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
23. Emergency phone numbers posted at all site phones? Dashboards of field vehicles? (SSHP15.0 3) (SSHP19.0 5)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
24. Showers and lunch areas provided?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
25. Equipment decontaminated prior to any maintenance? (SSHP16.0 2)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
26. Certificate of Decontamination completed? (SSHP16.0 2) <i>ⓧ Records of decontamination completed maintained with SHO</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
27. New Jersey One-Call System used for utility clearances? (SSHP17.0 a) <i>ⓧ History of one calls are maintained electronically</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
28. All mobile equipment provided with working backup alarms? (SSHP17.0 2 a)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
29. Equipment attended during operation? (SSHP17.0 2 b)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
30. All electrical equipment grounded and GFCIs used? (SSHP17.0 2 f)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
31. Adequate number of toilet facilities provided? (SSHP17.0 2 g)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
32. Source of potable water provided? (SSHP17.0 2 h)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
33. LOTO program implemented? (SSHP17.0 2 k)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
34. First aid kits provided with burn kits? (SSHP18.0 1 a)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

QUALITY CONTROL HEALTH AND SAFETY CHECKLIST

Safety and Health Issues to be Verified

Yes No NA Rank

35. Following Fire extinguishers provided? (SSHP18.0 1 b)

◊ 3A:40B:C

☒ ☐ ☐

◊ 20A:120B:C

☒ ☐ ☐

36. Fire extinguishers located at the following:

◊ USACE Trailer? (SSHP18.0 2 a)

☒ ☐ ☐

◊ USEPA Trailer? (SSHP18.0 2 b)

☒ ☐ ☐

◊ Office trailer? (SSHP18.0 2 c)

☒ ☐ ☐

◊ Construction Equipment Trailer? (SSHP 18.0 2 d)

☒ ☐ ☐

◊ Health and Safety Trailer? (SSHP 18.0 2 e)

☒ ☐ ☐

◊ Flammable Storage Area? (SSHP 18.0 2 f)

☒ ☐ ☐

◊ All site vehicles and heavy equipment? (SSHP18.0 2 g)

☒ ☐ ☐

37. Medical Facility? (SSHP18.0 1 c)

☒ ☐ ☐

38. Emergency Eyewash? (SSHP18.0 1 d)

☒ ☐ ☐

39. Two SCBAs? (SSHP 18.0 1 e) ☒ Recommend: SCBAs are no longer on location, recommend amending health and safety plan to reflect this change

☐ ☐ ☒

40. Spill Kits? (SSHP18.0 f)

☒ ☐ ☐

41. PPE (Level C) for two visitors? (SSHP18.0 g)

☒ ☐ ☐

42. Air horn available for use? (SSHP19.0 1 b.)

☒ ☐ ☐

43. Plastic sheeting available for medical emergencies? (SSHP19.0 3 c)

☒ ☐ ☐

44. Capabilities of selected medical facility verified by SSO? (SSHP19.0 5)

☒ ☐ ☐

45. Community Evacuation Planning Meeting completed? (SSHP19.0 7) ☒ Met with Carol Campbell (Somerset Medical Center)

☒ ☐ ☐

46. Drills for Emergency Response and Contingency Planning completed? (SSHP19.0 7 g)

☒ ☐ ☐

47. Medical Facility advised in writing of potential medical emergencies and notified of potential contaminants? (SSHP19.0 g)

☒ ☐ ☐

48. Community Protection Officer Identified? (SSHP20.0 2 a)

☒ ☐ ☐

49. Personal Air Monitoring Sheets maintained? (SSHP20.0 3)

☒ ☐ ☐

50. Excavation activities curtailed when wind speeds exceed 15 mph for more than 15 minutes? (SSHP21 a)

☐ ☐ ☒

51. Any mud on the decontamination pad kept moist? (SSHP21.0 b)

☒ ☐ ☐

52. All trucks carry contaminated debris and rubble covered? (SSHP21.0 c)

☒ ☐ ☐

53. Personal monitoring in EZ performed every 2-Hours? (SSHP22.0 1)

☒ ☐ ☐

54. Integrated monitoring for BETX and PAHs completed once a month? (SSHP22.0 2)

☒ ☐ ☐

55. Do site records contain the following?

◊ Training Log (SSHP 23.0 1 a)

☒ ☐ ☐

◊ Daily Logs (SSHP23.0 1 b)

☒ ☐ ☐

◊ Weekly Reports (SSHP23.0 1 c)

☒ ☐ ☐

◊ Real-time Air Monitoring (SSHP23.0 1 d)

☒ ☐ ☐

◊ Safety Meeting Record (SSHP23.0 1 e)

☒ ☐ ☐

◊ Decontamination Log (SSHP23.0 1 h)

☒ ☐ ☐

◊ Calibration Sheets (SSHP23.0 1 i)

☒ ☐ ☐

◊ Hot Work Permits (SSHP23.0 1 j)

☒ ☐ ☐

◊ Confined Space Permits (SSHP23.0 1 k)

☐ ☐ ☒

◊ Accident Reports (SSHP23.0 1 l)

☐ ☐ ☒

QUALITY CONTROL HEALTH AND SAFETY CHECKLIST

Safety and Health Issues to be Verified

Yes No NA Rank

- ◇ Employee/Visitor Registration (SSHP23.0 1 m) ☒ ☐ ☐
- ◇ Medical Certifications (SSHP23.0 1 n) ☒ ☐ ☐

56. Employee and Visitor Log contain the following: (SSHP23.0 5)

- ◇ Date and Time entering/exiting the site ☒ ☐ ☐
- ◇ Name and Address ☒ *No line item for address on visitor log, Recommend deleting address requirement* ☐ ☐
- ◇ Representing Agency/Company ☒ ☐ ☐

57. Air Quality Reports approved and signed AQS prior to submittal? (AMP3.0 1)

☒ ☐ ☐

58. AM&ST correctly identified? (AMP3.0 2)

☒ ☐ ☐

59. Appropriate sampling approach utilized for the current site activities? (AMP4.0)

☒ ☐ ☐

60. TO-13, TO-14, and PM-10 performed monthly? (AMP4.1)

☒ ☐ ☐

61. Work zone perimeter real-time TVO with 15-minute averages being performed? (AMP5.0 2)

☒ ☐ ☐

62. TVO and dust 15-min averages and graphs included in the Daily Air Monitoring Summary Report? (AMP9.1)

☒ ☐ ☐

63. Calibration and calibration checks on real time instruments performed correctly? (AMP10.2)

☒ ☐ ☐

64. Operating TVO operating manual available onsite? (AMP 5.1)

☒ ☐ ☐

65. Any TVO action level exceeded? Corrective action taken and documented? (AMP5.1.1) (10.4)

☐ ☐ ☒

66. And dust action level exceeded? Corrective action taken and documented? (AMP5.2.1) (10.4)

☐ ☐ ☒

67. TO-13 and PM-10 High volume samplers calibrated at least every 3-months or 360 hours? (AMP6.1) (6.3) ☒ Reviewed calibration records

☒ ☐ ☐

68. Meteorological hourly summary data included on spreadsheet? (AMP7.0)

☒ ☐ ☐

69. Adjacent roadways swept prior to sampling? (AMP8.0)

☒ ☐ ☐

70. Monthly air monitoring reports submitted within 14-days of receipt of sampling results? (AMP9.2) ☒ Receive monthly reports

☒ ☐ ☐

71. Results compared to action limits in tabular form? (AMP9.2)

☒ ☐ ☐

72. Calibration standards NIST traceable? (AMP10.2) ☒ Reviewed NIST documents

☒ ☐ ☐

73. Calibrations and post calibration check readings documented? (AMP10.2)

☒ ☐ ☐

74. Preventive maintenance schedule developed? (AMP10.3)

☒ ☐ ☐

75. Maintenance documented? (AMP10.3) ☒ Dust Trac sent in for annual maintenance

☒ ☐ ☐

76. Data evaluated by qualified and experienced personnel prior to use? (AMP10.4)

☒ ☐ ☐

77. Poor quality data not used in evaluation process? (AMP10.4) ☒ There was an incident that generated skewed data from a train being parked in the vicinity of an PM10 air monitor, in another incident, there was a laborer using a sealer too close to a Area-Rae VOC monitor, both of these events were reviewed by the SHO and determined to be poor quality data

☒ ☐ ☐

HEALTH AND SAFETY AUDIT

US Army Corps of Engineers - Kansas City District

CONTRACTOR: CDM Federal Programs
PROJECT: Horseshoe Road
DATE: February 21-22, 2006
Project Manager: Robyn Klefer

1.00 POLICY AND STANDARDS

- 1.10 Has an accident prevention plan with required HTRW amendment been written and communicated to workers? (385 01.A.11)
- 1.20 Does each subcontractor have a written Health and Safety Program? (CDM Appendix C)
- 1.30 Have all policy statements been endorsed by top management and clearly communicated to employees? (385 01.A.06)
- 1.40 Are injuries reported to the onsite government representative within 24 hrs. (385 01.D.01.b.)
- 1.50 CDM Health and Safety Manual available onsite? (SSHP TOC)
- 1.60 Does the Contractor hold subcontractors accountable for compliance with the APP and the requirements of EM-385-1-17 (385 01.A.18)
- 1.70 Are all incidents involving fatality, permanent total or partial disability, hospitalization of three or more, or property damage greater than \$200,000 reported to the GDA immediately? (385 01.D.02)
- 1.80 Are accident/illness exposure/experience records to include those of the prime contractor and all subcontractors? (385 01.D.05.a)

MAX	ACTL	CA
40	35	x
30	20	x
10	10	
5	5	
10	8	
30	25	
10	10	
10	10	
145	123	85%

Summary: 1.00 Policy and Standards

2.00 ORGANIZATION AND STAFFING

- 2.10 Onsite personnel designated in the SSHP present onsite? Signature page completed? (385 App A) Has each subcontractor designated a qualified safety representative? (CDM App C)
- 2.20 Is the designated site safety and health officer (SSHO) onsite during all work hours? (385 01.A.17)
- 2.30 Has the SSHO been delegated appropriate authority to implement and enforce the Contractor's APP? (385 01.A.17)
- 2.40 Are documented inspections completed by competent qualified persons? (385 App A 7.a)

30	25	
30	30	
40	40	
30	20	
130	115	88%

Summary: 2.00 Organization and Staffing

3.00 TRAINING

- 3.10 Is safety and health information readily available and communicated to workers? (385 01.A.06)
- 3.11 Required HTRW training documentation present onsite? Worker, supervisor, and CPR/First Aid?
- 3.12 Map denoting the route to nearest emergency care facility posted? (385 01.C.06.a)
- 3.13 Emergency communications available? (385 01.C.06.b)
- 3.20 Are safety meeting conducted site foremen for all workers at least weekly and documented? (385 01.B.05.a)
- 3.21 Are supervisor safety meetings conducted at least monthly? (385 01.B.05.a)
- 3.30 Is new employee safety training available, completed, and documented? (385 01.B.05.b)
- 3.40 Is the Government Designated Authority advised of all safety training in advance and invited to attend? (385 01.B.05.c)

5	5	
20	20	
20	20	
50	50	
30	30	
10	10	
30	30	
5	5	

Page 1

3.00 TRAINING (CONT)

- 3.50 Is safety training conducted by qualified personnel? (385 01.B.01)
- 3.60 Employees receive adequate training on the use, care, and inspection of personal protective equipment? (385 05.A.03)
- MSDSs readily available for hazardous chemicals brought onsite? (385 App A)

MAX	ACTL	CA
30	30	
10	10	
10	10	
220	220	100%

Summary: 3.00 Training

4.00 HAZARD ANALYSIS

- 4.10 Has an activity hazard analysis (AHA) been completed for each type of work involving a hazardous activity, including subcontracted work? (385 01.A.13)
- 4.20 Are AHA's reviewed and modified as necessary to address changing conditions, operations or of competent/qualified person(s)? (385 01.A.13.d)

40	30	x
40	35	x
80	65	81%

Summary: 4.00 Hazard Analysis

5.00 ASSESSMENT

- 5.10 Program level inspections completed by a competent person? Do inspections identify items requiring corrective action? (385 01.A.12.a and c)
- 5.20 Are daily safety inspections conducted and documented in the QC log? (385 01.A.12.b) Are documented daily inspection completed by all subcontractors? (CDM App C)
- 5.30 Are equipment inspection checklists on hand and completed for all machinery and mechanized equipment used on site? (385 01.A.12) (385 16.A.)
- 5.40 Housekeeping inspected daily? Findings documented? (385 14.C.01.b)

20	20	
40	30	
20	10	
10	5	
90	65	72%

Summary: 5.00 Program Assessment

6.00 CORRECTIVE ACTION

- 6.10 Has the Contractor established a safety deficiency tracking system? (01.A.12.d)
- 6.11 Does the system tracking include the date the deficiency was identified? (385 01.A.12.d.1)
- 6.12 Does the log describe the deficiency? (385 01.A.12.d.2)
- 6.13 Does the log identify the name of person(s) responsible for correcting deficiency? (385 01.A.12.d.3)
- 6.14 Does the log include the projected resolution date and the date that it was actually resolved? (385 01.A.12.d.4-5)
- 6.20 Is the deficiency tracking log updated daily? (385 01.A.12.d)
- 6.30 Have deficiencies identified in previous site inspections and audits been corrected?

40	30	
10	10	
20	15	
5	5	
5	5	
20	20	
40	20	
140	105	75%

Summary: 6.00 Corrective Action

HEALTH AND SAFETY AUDIT

US Army Corps of Engineers
Kansas City District

7.00 COMPLIANCE EMPHASIS AREAS

- 7.10 Environmental Sampling
- 7.11 Decontamination of personnel and equipment completed in accordance with SSHP? (SSHP 16-63)
- 7.12 Required PPE properly utilized? (SSHP 7)
- 7.13 Required personal and environmental monitoring completed? (SSHP 9)
- 7.20 Construction Equipment
- 7.21 Documented drill rig inspections completed daily? (SSHP AHA)
- 7.22 Drill rig contain type A fire extinguisher? (SSHP App A)
- 7.23 Leather gloves used during all drilling operations? (SSHP AHA)
- HTRW
- 7.30 Work zones identified? SSHP 2
- 7.31 Designated level of protective equipment utilized? SSHP 7
- 7.32 Training documentation reviewed for all onsite personnel prior to the start of work?
- 7.33 Personnel enrolled in a medical surveillance program, as appropriate? (CDM 8)
- 7.34 SHM a Certified Industrial Hygienist, Certified Safety Professional, or Certified Health Physicist, dependent on contaminant-related hazards? (385 28.A.02.b.3.a)

MAX ACTL CA

20	20	
10	10	
20	20	
20	15	
10	10	
5	5	
20	20	
20	15	x
30	30	
20	20	
20	15	x
195	180	92%

Notes:

- 1) If item is not applicable use the MAX value.
- 2) Check CA box if corrective action completed during the audit. All other items will be required to be tracked by the Contractor's deficiency tracking system.
- 3) Ratings: ≥95% Outstanding;
95% > Above Average ≥90%;
90% > Average ≥80%;
80% > Marginal ≥70%;
<70% Unsatisfactory.

Definitions:

MAX = Maximum Value
ACTL = Actual value assessed
CA = Corrective Action completed during inspection
385 = EM 385-1-1
1910 = 29 CFR 1910.120 or 1926.65
SSHO = Site Safety and Health Officer
SSHP CDM AHA = AHA 6142-211-001-ADMIN

OVERALL SAFETY PERFORMANCE SUMMARY

	Score	Rating
a. Adequacy of Safety Plan	91%	Above Average
b. Implementation of safety plan	89%	Average
c. Correction of noted deficiencies	76%	Marginal

Summary: 7.0: Compliance Emphasis Areas

Version: JAN 2006 - Horseshoe Road

Page 2

Auditor's Signature

Date: 24 FEB 2006

502217

HEALTH AND SAFETY AUDIT

US Army Corps of Engineers - New York District

CONTRACTOR:

PROJECT:

DATE:

Project Manager:

1.00 POLICY AND STANDARDS

- a 1.10 Has an accident prevention plan with required HTRW amendment been written and communicated to workers? (385 01.A.11)
- a 1.20 Is the personal protective equipment program effective and include supervisory assessments, selection, training, and inspection? (385 05.A)
- b 1.30 Have all policy statements been endorsed by top management and clearly communicated to employees? (385 01.A.06)
- b 1.40 Are injuries reported to the onsite government representative within 24 hrs. (385 01.D.01.b.)
- a 1.50 Worksites with non-english workers has person fluent in languages spoken and English? (385 01.A.05)
- b 1.60 Does the Contractor hold subcontractors accountable for compliance with the APP and the requirements of EM-385-1-17 (385 01.A.16)
- b 1.70 Are all incidents involving fatality, permanent total or partial disability, hospitalization of three or more, or property damage greater than \$200,000 reported to the GDA immediately? (385 01.D.02)
- b 1.80 Are accident/illness exposure/experience records to include those of the prime contractor and all subcontractors? (385 01.D.05.a)

MAX ACTL CA

40	40	
20	20	
10	10	
5	5	
20	20	
40	40	
10	10	
10	10	

Summary: 1.00 Policy and Standards

155 155 100%

2.00 ORGANIZATION AND STAFFING

- b 2.10 Onsite personnel designated in the SSHP present onsite? Signature page completed? (385 App A) Has each subcontractor designated a qualified safety representative? (CDM App C)
- a 2.20 Is the designated site safety and health officer (SSHO) onsite during all work hours? (385 01.A.17)
- b 2.30 Has the SSHO been delegated appropriate authority to implement and enforce the Contractor's APP? (385 01.A.17)
- b 2.40 Are documented inspections completed by competent qualified persons? (385 App A 7.a)

30	30	
30	30	
40	40	
30	30	

Summary: 2.00 Organization and Staffing

130 130 100%

3.00 TRAINING

- b 3.10 Is safety and health information readily available and communicated to workers? (385 01.A.06)
- a 3.11 Required HTRW training documentation present onsite? Worker, supervisor, and CPR/First Aid?
- a 3.12 Map denoting the route to nearest emergency care facility posted? (385 01.C.06.a)
- a 3.13 Emergency communications available? (385 01.C.06.b)
- b 3.20 Are safety meeting conducted site foremen for all workers at least weekly and documented? (385 01.B.05.a)
- b 3.21 Are supervisor safety meetings conducted at least monthly? (385 01.B.05.a)
- b 3.30 Is new employee safety training available, completed, and documented? (385 01.B.05.b)
- b 3.40 Is the Government Designated Authority advised of all safety training in advance and invited to attend? (385 01.B.05.c)

5	5	
20	20	
20	20	
50	50	
30	30	
10	10	
30	30	
5	5	

3.00 TRAINING (CONT)

- a 3.50 Is safety training conducted by qualified personnel? (385 01.B.01)
- a 3.60 Employees receive adequate training on the use, care, and inspection of personal protective equipment? (385 05.A.03)
- b MSDSs readily available for hazardous chemicals brought onsite? (385 App A)

MAX ACTL CA

30	30	
10	10	
10	10	

Summary: 3.00 Training

220 220 100%

4.00 HAZARD ANALYSIS

- a 4.10 Has an activity hazard analysis (AHA) been completed for each type of work involving a hazardous activity, including subcontracted work? (385 01.A.13)
- c 4.20 Are AHA's reviewed and modified as necessary to address changing conditions, operations or of competent/qualified person(s)? (385 01.A.13.d)
- b Operations involving potential exposure to hazardous substances reviewed and updated by IH or other competent person at least annually? (385 06.A.02d)

40	40	
40	40	
20	20	

Summary: 4.00 Hazard Analysis

100 100 100%

5.00 ASSESSMENT

- a 5.10 Program level inspections completed by a competent person? Do inspections identify items requiring corrective action? (385 01.A.12.a and c)
- b 5.20 Are daily safety inspections conducted and documented in the QC log? (385 01.A.12.b) Are documented daily inspection completed by all subcontractors?
- b 5.30 Are equipment inspection checklists on hand and completed for all machinery and mechanized equipment used on site? (385 01.A.12) (385 16.A)
- c 5.40 Housekeeping inspected daily? Findings documented? (385 14.C.01.b)

20	20	
40	40	
20	20	
10	10	

Summary: 5.00 Program Assessment

90 90 100%

6.00 CORRECTIVE ACTION

- c 6.10 Has the Contractor established a safety deficiency tracking system? (01.A.12.d)
- c 6.11 Does the system tracking include the date the deficiency was identified? (385 01.A.12.d.1)
- b 6.12 Does the log describe the deficiency? (385 01.A.12.d.2)
- a 6.13 Does the log identify the name of person(s) responsible for correcting deficiency? (385 01.A.12.d.3)
- c 6.14 Does the log include the projected resolution date and the date that it was actually resolved? (385 01.A.12.d.4-5)
- c 6.20 Is the deficiency tracking log updated daily? (385 01.A.12.d)
- c 6.30 Have deficiencies identified in previous site inspections and audits been corrected?

40	40	
10	10	
20	20	
5	5	
5	5	
20	20	
40	40	

HEALTH AND SAFETY AUDIT

US Army Corps of Engineers
Kansas City District

7.00 COMPLIANCE EMPHASIS AREAS

7.10 Environmental Sampling

- b 7.11
- b 7.12
- b 7.13

7.20 Construction Equipment

- b 7.21 All equipment inspected in accordance with manufacturer's recommendations prior to being placed in use? (385 16.A.01)
- b 7.22
- b 7.23 Equipment operated by only designated qualified individuals? (385 16.A.04)

HTRW

- b 7.30 Site personnel properly trained in accordance with 1910.1207 (385 28.A.02.b)
- b 7.31 Personnel exposed to contaminant-related health hazards enrolled in a medical surveillance program? (385 28.A.02.b.5)
- b 7.32 Adequate site control measures utilized? (385 28.A.02.b.10)
- a 7.33 Appropriate decontamination procedures effectively implemented? (385 28.A.02.b.11 and 12)
- a 7.34 SHM a Certified Industrial Hygienist, Certified Safety Professional, or Certified Health Physicist, dependent on contaminant-related hazards? (385 28.A.02.b.3.a)

MAX ACTL CA

20	20	
10	10	
20	20	

20	20	
10	10	
5	5	

20	20	
10	10	
5	5	

20	20	
20	20	

20	20	
20	20	

30	30	
20	20	

20	20	
20	20	

20	20	
20	20	

Summary: 7.0 Compliance Emphasis Areas

195	195	100%
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Notes:

- 1) If item is not applicable use the MAX value.
- 2) Check CA box if corrective action completed during the audit. All other items will be required to be tracked by the Contractor's deficiency tracking system.
- 3) Ratings: $\geq 95\%$ Outstanding;
 $95\% > \text{Above Average} \geq 90\%$;
 $90\% > \text{Average} \geq 80\%$;
 $80\% > \text{Marginal} \geq 70\%$;
 $< 70\%$ Unsatisfactory.

Definitions:

MAX = Maximum Value
 ACTL = Actual value assessed
 CA = Corrective Action completed during inspection
 385 = EM 385-1-1
 1910 = 29 CFR 1910.120 or 1926.65
 SSOH = Site Safety and Health Officer

OVERALL SAFETY PERFORMANCE SUMMARY

	Score	Rating
a. Adequacy of Safety Plan	100%	Outstanding
b. Implementation of safety plan	100%	Outstanding
c. Correction of noted deficiencies	100%	Outstanding

Version: APR 2006 HTRW Generic

Page 2

Auditor's Signature: _____

Date: _____

502220

HEALTH AND SAFETY AUDIT

US Army Corps of Engineers - New York District

CONTRACTOR: Evenson Environmental
PROJECT: Federal Creosote
DATE: 25 APR 98
Project Manager: Todd Daniels

1.00 POLICY AND STANDARDS

	MAX	ACTL	CA
a 1.10 Has an accident prevention plan with required HTRW amendment been written and communicated to workers? (385 01.A.11)	40	40	
a 1.20 Is the personal protective equipment program effective and include supervisory assessments, selection, training, and inspection? (385 05.A)	20	18	
a 1.30 Have all policy statements been endorsed by top management and clearly communicated to employees? (385 01.A.06)	10	10	
b 1.40 Are injuries reported to the onsite government representative within 24 hrs. (385 01.D.01.b)	5	5	
a 1.50 Worksites with non-english workers has person fluent in languages spoken and English? (385 01.A.05)	20	20	
b 1.60 Does the Contractor hold subcontractors accountable for compliance with the APP and the requirements of EM-385-1-17 (385 01.A.18)	40	20	
b 1.70 Are all incidents involving fatality, permanent total or partial disability, hospitalization of three or more, or property damage greater than \$200,000 reported to the GDA immediately? (385 01.D.02)	10	10	
b 1.80 Are accident/illness exposure/experience records to include those of the prime contractor and all subcontractors? (385 01.D.05.a)	10	10	

Summary: 1.00 Policy and Standards 155 133 86%

2.00 ORGANIZATION AND STAFFING

b 2.10 Onsite personnel designated in the SSMP present onsite? Signature page completed? (385 App A) Has each subcontractor designated a qualified safety representative? (CDM App C)	30	30	
a 2.20 Is the designated site safety and health officer (SSHO) onsite during all work hours? (385 01.A.17)	30	30	
b 2.30 Has the SSHO been delegated appropriate authority to implement and enforce the Contractor's APP? (385 01.A.17)	40	40	
b 2.40 Are documented inspections completed by competent qualified persons? (385 App A 7.a)	30	23	

Summary: 2.00 Organization and Staffing 130 123 95%

3.00 TRAINING

b 3.10 Is safety and health information readily available and communicated to workers? (385 01.A.06)	5	5	
a 3.11 Required HTRW training documentation present onsite? Worker, supervisor, and CPR/First Aid?	20	20	
a 3.12 Map denoting the route to nearest emergency care facility posted? (385 01.C.06.a)	20	20	
a 3.13 Emergency communications available? (385 01.C.06.b)	50	50	
b 3.20 Are safety meeting conducted site foremen for all workers at least weekly and documented? (385 01.B.05.a)	30	30	
b 3.21 Are supervisor safety meetings conducted at least monthly? (385 01.B.05.a)	10	10	
b 3.30 Is new employee safety training available, completed, and documented? (385 01.B.05.b)	30	30	
b 3.40 Is the Government Designated Authority advised of all safety training in advance and invited to attend? (385 01.B.05.c)	5	5	

Page 1

3.00 TRAINING (CONT)

	MAX	ACTL	CA
a 3.50 Is safety training conducted by qualified personnel? (385 01.B.01)	30	30	
a 3.60 Employees receive adequate training on the use, care, and inspection of personal protective equipment? (385 05.A.03)	10	10	
b MSDSs readily available for hazardous chemicals brought onsite? (385 App A)	10	10	

Summary: 3.00 Training

220	220	100%
-----	-----	------

4.00 HAZARD ANALYSIS

a 4.10 Has an activity hazard analysis (AHA) been completed for each type of work involving a hazardous activity, including subcontracted work? (385 01.A.13)	40	40	
c 4.20 Are AHA's reviewed and modified as necessary to address changing conditions, operations or of competent/qualified person(s)? (385 01.A.13.d)	40	40	
b Operations involving potential exposure to hazardous substances reviewed and updated by IH or other competent person at least annually? (385 06.A.02.d)	20	20	

Summary: 4.00 Hazard Analysis

100	100	100%
-----	-----	------

5.00 ASSESSMENT

a 5.10 Program level inspections completed by a competent person? Do inspections identify areas requiring corrective action? (385 01.A.12.a and c)	20	15	
b 5.20 Are daily safety inspections conducted and documented in the QC log? (385 01.A.12.b)	40	40	
b 5.30 Are equipment inspection checklists on hand and completed for all machinery and mechanized equipment used on site? (385 01.A.12) (385 16.A.)	20	20	
c 5.40 Housekeeping inspected daily? Findings documented? (385 14.C.01.b)	10	9	

Summary: 5.00 Program Assessment

90	84	93%
----	----	-----

6.00 CORRECTIVE ACTION

c 6.10 Has the Contractor established a safety deficiency tracking system? (01.A.12.d)	40	40	
c 6.11 Does the system tracking include the date the deficiency was identified? (385 01.A.12.d.1)	10	10	
c 6.12 Does the log describe the deficiency? (385 01.A.12.d.2)	20	20	
c 6.13 Does the log identify the name of person(s) responsible for correcting deficiency? (385 01.A.12.d.3)	5	5	
c 6.14 Does the log include the projected resolution date and the date that it was actually resolved? (385 01.A.12.d.4-5)	5	5	
c 6.20 Is the deficiency tracking log updated daily? (385 01.A.12.d)	20	10	
c 6.30 Have deficiencies identified in previous site inspections and audits been corrected?	40	40	

Summary: 6.00 Corrective Action

140	130	93%
-----	-----	-----

502221

HEALTH AND SAFETY AUDIT

US Army Corps of Engineers
New York District

7.00 COMPLIANCE EMPHASIS AREAS

7.10 Environmental Sampling

- b 7.11
- b 7.12
- b 7.13

7.20 Construction Equipment

- b 7.21 All equipment inspected in accordance with manufacturer's recommendations prior to being placed in use? (385 18.A.01)
- b 7.22
- b 7.23 Equipment operated by only designated qualified individuals? (385 18.A.04)

MAX ACTL CA

20	20	
5	5	

Notes:

- 1) If item is not applicable use the MAX value.
- 2) Check CA box if corrective action completed during the audit. All other items will be required to be tracked by the Contractor's deficiency tracking system.
- 3) Ratings: $\geq 85\%$ Outstanding;
 $65\% > \text{Above Average} \geq 80\%$;
 $90\% > \text{Average} \geq 80\%$;
 $80\% > \text{Marginal} \geq 70\%$;
 $< 70\%$ Unsatisfactory.

Definitions:

MAX = Maximum Value
 ACTL = Actual value assessed
 CA = Corrective Action completed during inspection
 385 = EM 385-1-1
 1910 = 29 CFR 1910.120 or 1926.85
 SSO = Site Safety and Health Officer

HTRW

- b 7.30 Site personnel properly trained in accordance with 1910.120? (385 28.A.02.b)
- b 7.31 Personnel exposed to contaminant-related health hazards enrolled in a medical surveillance program? (385 28.A.02.b.5)
- b 7.32 Adequate site control measures utilized? (385 28.A.02.b.10)
- b 7.33 Appropriate decontamination procedures effectively implemented? (385 28.A.02.b.11 and 12)
- a 7.34 SHM a Certified Industrial Hygienist, Certified Safety Professional, or Certified Health Physicist, dependent on contaminant-related hazards? (385 28.A.02.b.3.a)

20	20	
20	20	
30	30	
20	20	
20	20	
135	135	100%

OVERALL SAFETY PERFORMANCE SUMMARY

	Score	Suggested Rating
a. Adequacy of Safety Plan	98%	Outstanding
b. Implementation of safety plan	94%	Above Average
c. Correction of noted deficiencies	94%	Above Average

DRAFT

Summary: 7.0 Compliance Emphasis Areas

Version: APR 2006 HTRW Generic

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Auditor's Signature: _____
 Date: _____

502222

1.00 POLICY AND STANDARDS

1.10

1.20 PPE policy and procedures not adequately detailed in the SSHP.

1.30

1.40

1.50

1.60 Safety performance of subcontractors may not be adequately documented and incorporated into subcontract performance rating process.

1.70

1.80

2.00 ORGANIZATION AND STAFFING

2.10

2.20

2.30

2.40 Inspections are performed, however, not documented.

3.00 TRAINING

3.10

3.11

3.12

3.13

3.20

3.21

3.30

3.40

3.00 TRAINING (CONT)

3.50

3.60

4.00 HAZARD ANALYSIS

4.10

4.20

5.00 ASSESSMENT

5.10 Annual inspections completed, however, they are more compliance oriented.

Program/process level inspections are not documented. Quarterly site visits by SHM completed, but not verified during audit.

5.20

5.30

5.40 Housekeeping observed to be good during site visit, however, inspection cannot be verified.

6.00 CORRECTIVE ACTION

6.10

6.11

6.12

6.13

6.14

6.20 Log has not been updated for one-year.

Process may not be implemented effectively.

Suggest encouraging employee involvement

by tracking all employee suggestions

requiring corrective action and reporting

periodically through closure to the individual employee

6.30

DRAFT

7.00 COMPLIANCE EMPHASIS AREAS

7.10 Enviromental Sampling

7.11

7.12

7.13

7.20

7.21

7.22

7.23

HTRW

7.30

7.31

7.32

7.33

7.34

Version: April 2006 - Generic

DRAFT

CENWK-EC-EF (200-1c)

DDM//3911
26 JAN 2006

MEMORANDUM FOR CENAN-SO (HIGGINS)

THRU CENWK-EC-EF (POULIOT)

SUBJECT: Federal Creosote: 2nd Quarter 2006 Health and Safety Review

1. On 23 January 2006, a site visit to Federal Creosote Superfund Site was completed. The intent of the audit was to continue to provide routine site safety field support during Mr. Raymond Lo's absence while he is in Active Duty status. Field visits assist in maintaining effective communication with field safety personnel and demonstrate that safety continues to be a USACE project value.
2. The following field personnel were contacted during the visit: Mr. Neal Kolb, CENAN Project Engineer; Mr. Michael Johnson, CENAN Construction Representative; Mr. Eric Tschudi, Severson Site Safety and Health Officer; and Dr. Paul Hitcho, Severson Safety and Health Manager. A walk-through inspection of work areas and offices was also completed.
3. It was confirmed that the recent change in the perimeter monitoring sampling frequency from monthly to quarterly appears to be appropriate. The change allows more flexibility to complete sampling during periods that would be deemed "worse-case" or postponed until site conditions are more favorable for sampling.
4. Currently the project is in the process of scaling down as several of the earlier phases of work are ending. During this process it was noted that safety issues could arise from low morale. It could be challenging to maintain the program's effectiveness throughout the project's life cycle because activities may become routine, resulting in complacency.
5. It was indicated that a more formal audit of the safety program would be completed during the 3rd quarter visit.
6. Please contact me at (816) 983-3911 or via email at daniel.d.mitchell@usace.army.mil if you have any questions or concerns related to this review.


Daniel D. Mitchell, CIH, PMP
CENWK-EC-EF

CF: CENWK-PM-E (DANIELS)
CENAN-CO-NE (KOLB)

CENWK-EC-EF (2064C)

DDM/ms/3911
18 December 2006

MEMORANDUM FOR CENAN-SO (HIGGINS)

THRU CENWK-EC-EF (LEIBBERT)

SUBJECT: Federal Creosote: 1st Quarter 2007 Health and Safety Review

1. On 13 DEC 06, a safety review of Federal Creosote Superfund Site was completed. The intent of this review was to assist in providing periodic safety support for selected FUSRAP and Superfund sites while Mr. Raymond Lo, CIH is on Active Duty. The following field personnel were contacted during the visit: Messrs. Neal Kolb, CENAN Project Engineer; Michael Johnson, CENAN Construction Representative; Jimmy Awad, CENAN Construction Representative; Eric Tschudi, Severson Site Safety and Health Officer (SSHO); and Davis Raver, Severson Safety and Health Technician.
2. No changes of note have occurred since the last site visit. Implementation of the site safety plan continues to be effective; recently the project exceeded 500,000 man-hours without a lost-work day incident. Site management, including safety, has effectively integrated safety procedures and requirements into the site's operations. During the site visit training, inspection, accident/incident investigation, and corrective action processes were reviewed.
3. Attended weekly progress meeting. The safety briefing included an incident where the 15-minute dust action level (AL) was exceeded. On December 5th, several wind gusts generated a visible dust. Additional dust control measures were initiated in response to the visible emission. That evening, in the data analysis confirmed that the dust levels exceeded the 15-minute AL which is 150 ug/m³. A concern related to the delay between the incident and time the AL was assessed and that no alarm is available to notify site personnel of a dust level above the AL.
4. Subsequent to the progress meeting, the action level and the need for an alarm was reviewed. No changes to the current approach are recommended for the following reasons: 1) The 15-minute AL uses the from the Environmental Protection Agency Ambient Air Quality Standard of 150 ug/m³ of particulate. During design, an assessment determined that this AL would protect the adjacent community from potential health hazards associated with air emissions for project operations. This assessment included an evaluation of the site's chemicals of concern. However, a significant factor of safety has been included in the AL by using a time weighted average of 15 minutes instead of the normal NAAQS duration of 24 hours. 2) In this case, although corrective measures were implemented as a result of visual observations and not to an alarm, the real-time monitoring data validated that corrective action was required and that once taken it effective controlled dust emissions. If corrective action was not initiated, this would indicate a potential performance issue since the data would be indicative that a visible emission occurred and required mitigation.

CENWK EC-EF

SUBJECT: Federal Creosote: 1st Quarter 2007 Health and Safety Review

5. The accident report form, ENG 3394, for the compactor roll-over accident was reviewed. The accident was attributed to "operator error". It was suggested that there may have been other contributing factors that may not have effectively assessed during the investigation process. If identified subsequent corrective action may ameliorate identified hazards. There are several accepted methods to complete root-cause analyses and it may be beneficial for the SSHO to receive formal training in root-cause analysis. As a tool, this may increase the effectiveness of future accident investigation, should they occur. A copy of ENG 3394 is enclosed.
6. The following processes were verified, copies of selected site documentation are enclosed, during the visit: Safe Plan of Action process which incorporates hazard analysis; compliance with training requirements; inspection processes; and corrective action. From the review, the only suggestion made is to expand the corrective action log to include any items that is reported by workers or items that are identified during the daily inspection process that cannot be corrected immediately on-the-spot.
7. The results of the previous audit, completed 25-APR 06, were reviewed to assess the effectiveness of the corrective action process. The following comments were made:
 - a. Paragraph 4 states - "...increasing the level of documentation associated with the program and periodic site inspections and associated corrective action may be beneficial and provide a means to demonstrate compliance with contractual requirements." To date, no significant changes have been implemented in regards to this issue. Requirements for inspections are detailed in EM 385-1-1 01.A.12 and includes daily documented inspections and that any item identified in included in the deficiency tracking system. Items identified in the 25 APR 06 have not been adequately tracked and effectively closed.
 - b. Audit item 1.20e - *"Is the personal protective equipment program effective and include supervisory assessments, selection, training, and inspection?"* A revision to the plan was prepared in conjunction with a change in the Level Mod-D clothing components. Item is determined to be closed.
 - c. Audit Item 2.40 - *"Are documented inspections completed by qualified individuals?"* Daily inspections continue to occur and are incorporated into the Daily Quality Control Reports. This item is determined to be closed. However, periodic use of a more formal documented inspection process is recommended. It is my opinion that there are benefits that can be gained from using a more systematic inspection and corrective action method, especially on long-term projects such as Federal Creosote. Inspection requirements are included in EM 385-1-1 Appendix A.7.
 - d. Audit Item 5.10 - *"Program inspections completed by a competent person? Do inspections identify items requiring corrective action?"* The Health and Safety Manager completes site visits and informal inspections at least quarterly. However, it is recommended that a more formal systematic approach be used to assess and document the effectiveness of the safety program. Item has not been adequately addressed. In addition, since there is an absence of documented inspections the quality and effectiveness of the inspection process cannot be adequately assessed. An effective inspection process will identify areas of improvement.
 - e. Audit Item 6.20 - *"Is the deficiency tracking log updated daily?"* Safety issues are incorporated into the QC tracking system for the project which is updated in a timely manner. Therefore, this item is considered to be closed. However, only two safety-related items have been added to the log since the previous inspection. As stated previously, since there is limited documentation related to inspections and corrective action, it is difficult to assess the quality and effectiveness of these management processes.

CENWK EC-EF

SUBJECT: Federal Creosote: 1st Quarter 2007 Health and Safety Review

8. No change from the recommended performance ratings included in the 02 MAY 06 assessment is recommended.

9. Please contact me at (816) 389-3911 or via email at daniel.d.mitchell@usace.army.mil if you have any questions or concerns related to this review.

Encls

1. Safe Plan of Action
2. Corrective Action Log
3. ENG 3394

Daniel D. Mitchell, CIH, PMP
CENWK-EC-EF

CF: CENWK-PM-E (DANIELS)
CENAN-CO-NE (KOLB)
SEVENSON (HITCHO)

Project: Federal Creosote

Contractor: Severson

Contractor safety officer: Eric Tschudi and Davis River

Army Corp Reps: Neal Kolb, Mandeep Talwar, Micheal Johnson, Gamal Awad

Date of visit: March 7, 2007

Contractor activities: Excavation and load out

Deficiencies:

1. None observed

Compliant items:

1. Personnel protective equipment worn by site workers.

Comments:

1. There was a slip and fall observed by Raymond Lo in the morning, the worker got up and was not hurt. Recommendation to talk about slip, trips, and falls during a morning tool box talk.
2. There is orange fencing that is being used as perimeter protection along the excavation. There are two homes where this orange fencing is being used. One of the homes is being used by a Severson employee and the other is vacant, under these conditions Class II perimeter protection is adequate. (reference EM 385-1-1, 25.B.01 and Q-52) The orange fencing on the private owner's home appeared to sag at certain locations, recommendation to tighten fencing at this location.
3. Safety deficiencies are currently recorded in a deficiency list that is intermingled with various construction and quality assurance deficiencies. This process makes it difficult to extract the safety deficiencies, it is recommended to establish a separate safety deficiency log. (reference EM 385-1-1, 01.A.12.d)
4. Follow up on prior incidents in 2006 were reviewed with Eric Tschudi and Davis River and corrective actions has been completed on all incidents.

Project: Federal Creosote

Contractor: Severson

Contractor safety officers: Eric Tschudi and Davis River

Army Corp Reps: Neal Kolb, Mandeep Talwar, Micheal Johnson, Gamal Awad

Date of visit: April 24, 2007

Contractor activities: Excavation for storm drain, sheet pile removal via crane, backfill operations, PSEG removing power lines

Deficiencies:

1. None observed

Compliant items:

1. Electrical lines were taken down by PSEG prior to the removal of sheet piles adjacent to the electrical lines.
2. Excavation for storm drain was properly sloped and ladder was available for laborer to enter the excavation. Load charts for the excavator was available to the operator, slings used to lower concrete structure in excavation were in good condition.
3. Crane swing radius taped off during sheet pile removal.
4. Crane certificate of unit test is current and crane operator is certified, documentation is on location.

Comments:

1. A worker with the crane crew was torch cutting two inch holes with short sleeve shirt. Due to the sparks coming from the torch cutting it was recommended that he wear long sleeve shirt. The recommendation was instituted immediately.

(For Safety Officer only)		REPORT NO.	EROC CODE	UNITED STATES ARMY CORPS OF ENGINEERS ACCIDENT INVESTIGATION REPORT (For Use of this Form See Help Menu and USACE Suppl to AR 385-40)		REQUIREMENT CONTROL SYMBOL: CEEC-S-8(R2)
1. ACCIDENT CLASSIFICATION						
PERSONNEL CLASSIFICATION		INJURY/ILLNESS/FATAL		PROPERTY DAMAGE		MOTOR VEHICLE INVOLVED
GOVERNMENT <input type="checkbox"/> CIVILIAN <input type="checkbox"/> MILITARY		<input type="checkbox"/>		<input type="checkbox"/> FIRE INVOLVED <input type="checkbox"/> OTHER		<input type="checkbox"/>
<input checked="" type="checkbox"/> CONTRACTOR		<input type="checkbox"/>		<input type="checkbox"/> FIRE INVOLVED <input checked="" type="checkbox"/> OTHER		<input checked="" type="checkbox"/>
<input type="checkbox"/> PUBLIC		<input type="checkbox"/> FATAL <input type="checkbox"/> OTHER				<input type="checkbox"/>
2. PERSONAL DATA						
a. Name (Last, First, MI) Mulvan, James		b. AGE 44	c. SEX <input checked="" type="checkbox"/> MALE <input type="checkbox"/> FEMALE		d. SOCIAL SECURITY NUMBER	e. GRADE * NA
f. JOB SERIES/TITLE Operator		g. DUTY STATUS AT TIME OF ACCIDENT <input checked="" type="checkbox"/> ON DUTY <input type="checkbox"/> TDY <input type="checkbox"/> OFF DUTY		h. EMPLOYMENT STATUS AT TIME OF ACCIDENT <input type="checkbox"/> ARMY ACTIVE <input type="checkbox"/> ARMY RESERVE <input type="checkbox"/> VOLUNTEER <input type="checkbox"/> PERMANENT <input type="checkbox"/> FOREIGN NATIONAL <input type="checkbox"/> SEASONAL <input type="checkbox"/> TEMPORARY <input type="checkbox"/> STUDENT <input type="checkbox"/> OTHER (Specify)		
3. GENERAL INFORMATION						
a. DATE OF ACCIDENT (month/day/year) 06/15/2006		b. TIME OF ACCIDENT (Military time) 1100 hrs		c. EXACT LOCATION OF ACCIDENT Federal Creosote Superfund Site, Manville, NJ		d. CONTRACTOR'S NAME (1) PRIME: Svenson Environmental Services, Inc. (2) SUBCONTRACTOR:
e. CONTRACT NUMBER W912DQ-04-D-0023, T.O. #0001 <input type="checkbox"/> CIVIL WORKS <input type="checkbox"/> MILITARY <input checked="" type="checkbox"/> OTHER (Specify) Superfund		f. TYPE OF CONTRACT <input checked="" type="checkbox"/> CONSTRUCTION <input type="checkbox"/> SERVICE <input type="checkbox"/> A/E <input type="checkbox"/> DREDGE <input type="checkbox"/> OTHER (Specify)		g. HAZARDOUS/TOXIC WASTE ACTIVITY <input checked="" type="checkbox"/> SUPERFUND <input type="checkbox"/> DERP <input type="checkbox"/> IRP <input type="checkbox"/> OTHER (Specify)		
4. CONSTRUCTION ACTIVITIES ONLY (Fill in line and corresponding code number in box from list - see help menu)						
a. CONSTRUCTION ACTIVITY Excavation/Trenching (Stockpile Loadout)		(CODE) # 3		b. TYPE OF CONSTRUCTION EQUIPMENT Backhoe		(CODE) # 16
INJURY/ILLNESS INFORMATION (Include name on line and corresponding code number in box for items a, f & g - see help menu)						
a. SEVERITY OF ILLNESS/INJURY No Injury		(CODE) # NOI		b. ESTIMATED DAYS LOST 0		c. ESTIMATED DAYS HOSPITALIZED 0
d. ESTIMATED DAYS RESTRICTED DUTY 0						
e. BODY PART AFFECTED PRIMARY NA		(CODE) # NA		f. TYPE AND SOURCE OF INJURY/ILLNESS		
SECONDARY NA		(CODE) # NA		TYPE NA		
g. NATURE OF ILLNESS/INJURY NA		(CODE) # NA		SOURCE NA		
5. PUBLIC FATALITY (Fill in line and correspondence code number in box - see help menu)						
a. ACTIVITY AT TIME OF ACCIDENT NA		(CODE) # NA		b. PERSONAL FLOATATION DEVICE USED? <input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A		
6. MOTOR VEHICLE ACCIDENT						
a. TYPE OF VEHICLE <input type="checkbox"/> PICKUP/VAN <input type="checkbox"/> AUTOMOBILE <input type="checkbox"/> TRUCK <input checked="" type="checkbox"/> OTHER (Specify) PC300 Backhoe		b. TYPE OF COLLISION <input type="checkbox"/> SIDE SWIPE <input type="checkbox"/> HEAD ON <input type="checkbox"/> REAR END <input type="checkbox"/> BROADSIDE <input type="checkbox"/> ROLL OVER <input type="checkbox"/> BACKING <input checked="" type="checkbox"/> OTHER (Specify) NA		c. SEAT BELTS (1) FRONT SEAT <input checked="" type="checkbox"/> USED <input type="checkbox"/> NOT USED <input type="checkbox"/> NOT AVAILABLE (2) REAR SEAT		
7. PROPERTY/MATERIAL INVOLVED						
a. NAME OF ITEM		b. OWNERSHIP		c. \$ AMOUNT OF DAMAGE		
(1) PC300 Backhoe		Contractor		\$0.00		
(2) Electrical Conduit		Government		\$1,920.00		
(3)						
8. VESSEL/FLOATING PLANT ACCIDENT (Fill in line and correspondence code number in box from list - see help menu)						
a. TYPE OF VESSEL/FLOATING PLANT NA		(CODE) # NA		b. TYPE OF COLLISION/MISHAP NA		
		(CODE) # NA				
9. ACCIDENT DESCRIPTION (Use additional paper, if necessary)						
The operator was utilizing a PC 300 track hoe on top of the subtitle C material stockpile within the Lagoon-A area when a piece of asphalt fell from the bucket and came in contact with the PVC electrical conduit running along side the stockpile boundary. (See additional sheet)						

11. CAUSAL FACTOR(S) (Read Instruction Before Completing)			
a. (Explain YES answers in item 13) DESIGN: Was design of facility, workplace or equipment a factor? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO INSPECTION/MAINTENANCE: Were inspection & maintenance procedures a factor? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO PERSON'S PHYSICAL CONDITION: In your opinion, was the physical condition of the person a factor? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO OPERATING PROCEDURES: Were operating procedures a factor? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO JOB PRACTICES: Were any job safety/health practices not followed when the accident occurred? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO HUMAN FACTORS: Did any human factors such as, size or strength of person, etc., contribute to accident? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO ENVIRONMENTAL FACTORS: Did heat, cold, dust, sun, glare, etc., contribute to the accident? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		a. (CONTINUED) CHEMICAL AND PHYSICAL AGENT FACTORS: Did exposure to chemical agents, such as dust, fumes, mists, vapors or physical agents, such as, noise, radiation, etc., contribute to accident? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO OFFICE FACTORS: Did office setting such as, lifting office furniture, carrying, stooping, etc., contribute to the accident? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO SUPPORT FACTORS: Were inappropriate tools/resources provided to properly perform the activity/task? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO PERSONAL PROTECTIVE EQUIPMENT: Did the improper selection, use or maintenance of personal protective equipment contribute to the accident? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO DRUGS/ALCOHOL: In your opinion, was drugs or alcohol a factor to the accident? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO b. WAS A WRITTEN JOB/ACTIVITY HAZARD ANALYSIS COMPLETED FOR TASK BEING PERFORMED AT TIME OF ACCIDENT? <input checked="" type="checkbox"/> YES (If yes, attach a copy.) <input type="checkbox"/> NO	
12. TRAINING			
a. WAS PERSON TRAINED TO PERFORM ACTIVITY/TASK? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		b. TYPE OF TRAINING. <input type="checkbox"/> CLASSROOM <input checked="" type="checkbox"/> ON JOB	
c. DATE OF MOST RECENT FORMAL TRAINING. 06/15/2006 (Month) (Day) (Year)			
13. FULLY EXPLAIN WHAT ALLOWED OR CAUSED THE ACCIDENT; INCLUDE DIRECT AND INDIRECT CAUSES (See instruction for definition of direct and indirect causes.) (Use additional paper, if necessary)			
a. DIRECT CAUSE Asphalt material falling from bucket striking the electrical conduit.			
b. INDIRECT CAUSE(S) Operator not aware of the close proximity of electrical conduit to the stockpile.			
14. ACTION(S) TAKEN, ANTICIPATED OR RECOMMENDED TO ELIMINATE CAUSE(S). DESCRIBE FULLY: During the Daily Safety Meeting held the morning of 6/16/06, the topics discussed included paying attention to your surroundings when operating heavy equipment. (See additional sheet)			
15. DATES FOR ACTIONS IDENTIFIED IN BLOCK 14.			
a. BEGINNING (Month/Day/Year) 06/16/2006		b. ANTICIPATED COMPLETION (Month/Day/Year) 06/16/2006	
c. SIGNATURE AND TITLE OF SUPERVISOR COMPLETING REPORT CORPS _____ CONTRACTOR _____		d. DATE (Mo/Da/Yr) 06/19/2006	e. ORGANIZATION IDENTIFIER (Div., Br, Sect)
		f. OFFICE SYMBOL 	
16. MANAGEMENT REVIEW (1st)			
a. <input type="checkbox"/> CONCUR b. <input type="checkbox"/> NON CONCUR c. COMMENTS 			
SIGNATURE _____		TITLE _____	
		DATE _____	
17. MANAGEMENT REVIEW (2nd - Chief Operations, Construction, Engineering, etc.)			
a. <input type="checkbox"/> CONCUR b. <input type="checkbox"/> NON CONCUR c. COMMENTS 			
SIGNATURE _____		TITLE _____	
		DATE _____	
18. SAFETY AND OCCUPATIONAL HEALTH OFFICE REVIEW			
a. <input type="checkbox"/> CONCUR b. <input type="checkbox"/> NON CONCUR c. ADDITIONAL ACTIONS/COMMENTS 			
SIGNATURE _____		TITLE _____	
		DATE _____	
19. COMMAND APPROVAL			
COMMENTS _____			
COMMANDER SIGNATURE _____			DATE _____

10.

ACCIDENT DESCRIPTION (Continuation)

The PVC conduit was broken and the wires were severed. Power was interrupted to the yard scale. EID (electrical subcontractor) was called to the site to perform repairs to the line. The electricians arrived on site at approximately 1500 and finished the repair at 2100. The SES Safety Officer and Assistant Superintendent remained on site during the repair.

3a.

DIRECT CAUSE (Continuation)

13b.

INDIRECT CAUSES (Continuation)

14.

ACTION(S) TAKEN, ANTICIPATED, OR RECOMMENDED TO ELIMINATE CAUSE(S) (Continuation)

Also, the electrical conduit was made more visible by using high visibility orange paint and an orange safety fence was put up on both sides of the conduit.

(For Safety only)		REPORT NO.	EROC CODE	UNITED STATES ARMY CORPS OF ENGINEERS ACCIDENT INVESTIGATION REPORT (For Use of this Form See Help Menu and USACE Suppl to AR 385-40)		REQUIREMENT CONTROL SYMBOL: CEEC-S-8(R2)	
ACCIDENT CLASSIFICATION							
PERSONNEL CLASSIFICATION		INJURY/ILLNESS/FATAL		PROPERTY DAMAGE		MOTOR VEHICLE INVOLVED	
GOVERNMENT <input type="checkbox"/> CIVILIAN <input type="checkbox"/> MILITARY <input checked="" type="checkbox"/> CONTRACTOR <input type="checkbox"/> PUBLIC		<input type="checkbox"/> FATAL <input type="checkbox"/> OTHER		<input type="checkbox"/> FIRE INVOLVED <input type="checkbox"/> OTHER <input type="checkbox"/> FIRE INVOLVED <input type="checkbox"/> OTHER		<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	
PERSONAL DATA							
a. Name (Last, First, MI)		b. AGE	c. SEX	d. SOCIAL SECURITY NUMBER		e. GRADE	
LaGreca, Vincent		30	<input checked="" type="checkbox"/> MALE <input type="checkbox"/> FEMALE			NA	
f. JOB SERIES/TITLE		g. DUTY STATUS AT TIME OF ACCIDENT		h. EMPLOYMENT STATUS AT TIME OF ACCIDENT			
Operator		<input checked="" type="checkbox"/> ON DUTY <input type="checkbox"/> TDY <input type="checkbox"/> OFF DUTY		<input checked="" type="checkbox"/> ARMY ACTIVE <input type="checkbox"/> ARMY RESERVE <input type="checkbox"/> VOLUNTEER <input type="checkbox"/> PERMANENT <input type="checkbox"/> FOREIGN NATIONAL <input type="checkbox"/> SEASONAL <input type="checkbox"/> TEMPORARY <input type="checkbox"/> STUDENT <input type="checkbox"/> OTHER (Specify)			
GENERAL INFORMATION							
a. DATE OF ACCIDENT (month/day/year)		b. TIME OF ACCIDENT (Military time)		c. EXACT LOCATION OF ACCIDENT		d. CONTRACTOR'S NAME	
06/16/2006		1000 hrs		Federal Creosote Superfund Site, Manville, NJ		(1) PRIME: Sevenson Environmental Services, Inc.	
e. CONTRACT NUMBER		f. TYPE OF CONTRACT		g. HAZARDOUS/TOXIC WASTE ACTIVITY		(2) SUBCONTRACTOR:	
W912DQ-04-D-0023, T.O. #0001		<input checked="" type="checkbox"/> CONSTRUCTION <input type="checkbox"/> SERVICE <input type="checkbox"/> A/E <input type="checkbox"/> DREDGE <input type="checkbox"/> OTHER (Specify)		<input checked="" type="checkbox"/> SUPERFUND <input type="checkbox"/> DERP <input type="checkbox"/> IRP <input type="checkbox"/> OTHER (Specify)			
CONSTRUCTION ACTIVITIES ONLY (Fill in line and corresponding code number in box from list - see help menu)							
a. CONSTRUCTION ACTIVITY				b. TYPE OF CONSTRUCTION EQUIPMENT			
Grading (Earthwork) (CODE) # 4				Compactor/vibratory roller (CODE) # 23			
INJURY/ILLNESS INFORMATION (Include name on line and corresponding code number in box for items e, f & g - see help menu)							
a. SEVERITY OF ILLNESS/INJURY				b. ESTIMATED DAYS LOST		c. ESTIMATED DAYS HOSPITALIZED	
No Injury (CODE) # NO1				0		0	
e. BODY PART AFFECTED				g. TYPE AND SOURCE OF INJURY/ILLNESS			
PRIMARY NA (CODE) # NA				TYPE NA (CODE) # NA			
SECONDARY NA (CODE) # NA				SOURCE NA (CODE) # NA			
f. NATURE OF ILLNESS/INJURY							
NA (CODE) # NA							
PUBLIC FATALITY (Fill in line and corresponding code number in box - see help menu)							
a. ACTIVITY AT TIME OF ACCIDENT				b. PERSONAL FLOATION DEVICE USED?			
NA (CODE) # NA				<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A			
MOTOR VEHICLE ACCIDENT							
a. TYPE OF VEHICLE		b. TYPE OF COLLISION		c. SEAT BELTS		USED NOT USED NOT AVAILABLE	
<input type="checkbox"/> PICKUP/VAN <input type="checkbox"/> AUTOMOBILE <input type="checkbox"/> TRUCK <input checked="" type="checkbox"/> OTHER (Specify)		<input type="checkbox"/> SIDE SWIPE <input type="checkbox"/> HEAD ON <input type="checkbox"/> REAR END <input type="checkbox"/> BROADSIDE <input checked="" type="checkbox"/> ROLL OVER <input type="checkbox"/> BACKING <input type="checkbox"/> OTHER (Specify)		(1) FRONT SEAT <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> (2) REAR SEAT <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>			
PROPERTY/MATERIAL INVOLVED							
a. NAME OF ITEM		b. OWNERSHIP		c. \$ AMOUNT OF DAMAGE			
(1) Compactor/Vibratory Roller		Contractor/Private		\$0.00			
(2)							
(3)							
VESSEL/FLOATING PLANT ACCIDENT (Fill in line and correspondence code number in box from list - see help menu)							
a. TYPE OF VESSEL/FLOATING PLANT				b. TYPE OF COLLISION/MISHAP			
NA (CODE) # NA				NA (CODE) # NA			
ACCIDENT DESCRIPTION (Use additional paper, if necessary)							
The operator was operating an Ingersol Rand vibratory drum roller to compact lifts of common fill when the slope gave way under the roller. (See additional sheet)							

11. CAUSAL FACTOR(S) (Read Instruction Before Completing)			
(Explain YES answers in item 13) DESIGN: Was design of facility, workplace or equipment a factor? YES NO <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO INSPECTION/MAINTENANCE: Were inspection & maintenance procedures a factor? YES NO <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO PERSON'S PHYSICAL CONDITION: In your opinion, was the physical condition of the person a factor? YES NO <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO OPERATING PROCEDURES: Were operating procedures a factor? YES NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO JOB PRACTICES: Were any job safety/health practices not followed when the accident occurred? YES NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO HUMAN FACTORS: Did any human factors such as, size or strength of person, etc., contribute to accident? YES NO <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO ENVIRONMENTAL FACTORS: Did heat, cold, dust, sun, glare, etc., contribute to the accident? YES NO <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	a. (CONTINUED) CHEMICAL AND PHYSICAL AGENT FACTORS: Did exposure to chemical agents, such as dust, fumes, mists, vapors, or physical agents, such as, noise, radiation, etc., contribute to accident? YES NO <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO OFFICE FACTORS: Did office setting such as, lifting office furniture, carrying, stooping, etc., contribute to the accident? YES NO <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO SUPPORT FACTORS: Were inappropriate tools/resources provided to properly perform the activity/task? YES NO <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO PERSONAL PROTECTIVE EQUIPMENT: Did the improper selection, use or maintenance of personal protective equipment contribute to the accident? YES NO <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO DRUGS/ALCOHOL: In your opinion, was drugs or alcohol a factor to the accident? YES NO <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO b. WAS A WRITTEN JOB/ACTIVITY HAZARD ANALYSIS COMPLETED FOR TASK BEING PERFORMED AT TIME OF ACCIDENT? <input checked="" type="checkbox"/> YES (If yes, attach a copy.) <input type="checkbox"/> NO		
12. TRAINING			
a. WAS PERSON TRAINED TO PERFORM ACTIVITY/TASK? <input type="checkbox"/> YES <input type="checkbox"/> NO	b. TYPE OF TRAINING. <input type="checkbox"/> CLASSROOM <input checked="" type="checkbox"/> ON-JOB	c. DATE OF MOST RECENT FORMAL TRAINING. 06/16/2006 (Month) (Day) (Year)	
13. FULLY EXPLAIN WHAT ALLOWED OR CAUSED THE ACCIDENT: INCLUDE DIRECT AND INDIRECT CAUSES (See instruction for definition of direct and indirect causes.) (Use additional paper, if necessary)			
a. DIRECT CAUSE Operating equipment close to the edge of, and in a parallel position to, the slope of the fill material.			
b. INDIRECT CAUSE(S)			
14. ACTION(S) TAKEN, ANTICIPATED OR RECOMMENDED TO ELIMINATE CAUSE(S). DESCRIBE FULLY: A Safety Stand Down Meeting was held to address "Lessons Learned" issues concerning the safe operation of equipment and to re-emphasize the Safe Plan of Action. (See additional sheet)			
DATES FOR ACTIONS IDENTIFIED IN BLOCK 14.			
a. BEGINNING (Month/Day/Year) 06/16/2006		b. ANTICIPATED COMPLETION (Month/Day/Year) 06/16/2006	
c. SIGNATURE AND TITLE OF SUPERVISOR COMPLETING REPORT CORPS _____ CONTRACTOR _____		d. DATE (Mo/Da/Yr) 06/19/2006	e. ORGANIZATION IDENTIFIER (Div, Br, Sect) _____
f. OFFICE SYMBOL _____			
16. MANAGEMENT REVIEW (1st)			
a. <input type="checkbox"/> CONCUR b. <input type="checkbox"/> NON CONCUR c. COMMENTS			
SIGNATURE		TITLE	DATE
17. MANAGEMENT REVIEW (2nd - Chief Operations, Construction, Engineering, etc.)			
a. <input type="checkbox"/> CONCUR b. <input type="checkbox"/> NON CONCUR c. COMMENTS			
SIGNATURE		TITLE	DATE
18. SAFETY AND OCCUPATIONAL HEALTH OFFICE REVIEW			
a. <input type="checkbox"/> CONCUR b. <input type="checkbox"/> NON CONCUR c. ADDITIONAL ACTIONS/COMMENTS			
SIGNATURE		TITLE	DATE
19. COMMAND APPROVAL			
COMMENTS			
COMMANDER SIGNATURE			DATE

10.

ACCIDENT DESCRIPTION (Continuation)

The roller slid sideways down the slope approximately seven feet at which time the roller tipped over on its side. The operator was immediately assisted by two co-workers who helped him from the roller. He was taken to a local medical center for observation but was released without injury. The roller was righted using cables and a backhoe. The instrument panel cover was bent during the upset but can be re-attached.

a.

DIRECT CAUSE (Continuation)

13b.

INDIRECT CAUSES (Continuation)

14. ACTION(S) TAKEN, ANTICIPATED, OR RECOMMENDED TO ELIMINATE CAUSE(S) (Continuation)

It should also be noted that there was a safety meeting held on 6/14/06 addressing Excavation and Trenching Hazards. Specifically, the safe operation of roller and dozer near the edges of excavations and trenches and what to do during an upset situation. In addition, the Safe Plan of Action for June 14 through June 16, address the subject of safe operating procedures for the roller. The attendance sheet and the Safe Plan of Action forms for June 14 and 16, 2006 are attached.

Safe Plan Of Action

Project No. G222

Job/Task Federal Creosote

Work Area Lagoon-A, E. Camplain Rd., Prop Rustic Mall.

Date 06/16/06

Steps of Task	Hazard/Reaction to Change	Safe Plan	Resources
Continue excavation within SW Area.	Excavation and trenching, heavy equipment, crushed by hazards, access and egress, handling contaminated material, loading operations, traffic control.	Maintain sidewall stability using sloping and benching methods, review safe operating procedures near excavations and trenches, stand clear of loading operations, observe swing radius clearance, observe proper PPE requirements, maintain proper access and egress, maintain exclusion log record, avoid contact with creosote material, monitoring for VOC levels within exclusion zone, use of traffic control equipment.	Heavy equipment, dump trucks, PPE, ladders, MultiRAE, barriers, traffic cones, flagmen.
Dumping truckloads of material into Lagoon-A stockpiles.	Dumping operations, crushed by hazards, potential to come in contact with contaminated material.	Stand clear of loading operations, observe swing radius clearance, observe proper PPE requirements, maintain proper access and egress, maintain exclusion log record, avoid contact with creosote material, monitoring for VOC levels within exclusion zone	Heavy equipment, dump trucks, PPE, MultiRAE.
Continue load out of contaminated material from stockpiles for transport to disposal facility.	Loading operations, crushed by hazards, heavy equipment, access and egress, handling contaminated material, loading operations, secure tarpaulins in place and traffic control.	Maintain stockpile stability during loading operations, stand clear of loading operations, observe swing radius clearance, observe proper PPE requirements, maintain proper access and egress, gain control of potential traffic issues during staging of trucks to be loaded, maintain exclusion log record, avoid contact with creosote material, inspect scaffolding prior to securing tarps at scale, monitoring for VOC levels within exclusion zone.	Heavy equipment, off site transport vehicles, scaffolding, traffic control methods, vests, flags, PPE, air monitoring instruments.

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Continue placement of common fill within SW area.	Dumping operations, traffic, uneven terrain, dozer and roller operations.	Stand clear of dumping operations, use of flagmen men to control traffic, watch where you step, pay attention to backup alarms, make eye contact with operator prior to approaching heavy equipment during operation, review safe operating procedures for dozer and roller near excavations and trenches.	Dump trucks, traffic vests, flags, heavy equipment.

Review checklist while completing front page of SPA. Check all that apply.

A new SPA is required if the job scope or work conditions change.

Required Permits	Hazards	Safe Plan
<input type="checkbox"/> Confined Space	<input checked="" type="checkbox"/> Overhead Utilities	<input type="checkbox"/> Power de-energization required <input type="checkbox"/> Insulation blankets required <input checked="" type="checkbox"/> Wire watcher required
<input type="checkbox"/> Critical Lift	<input type="checkbox"/> Crane or other Lifting Equipment	<input checked="" type="checkbox"/> Required clearance distance = 10 Ft. <input type="checkbox"/> Safe work zone marked
<input type="checkbox"/> Hot Work	<input type="checkbox"/> Underground Utilities	<input type="checkbox"/> Signaller assigned <input type="checkbox"/> Tag lines in use <input type="checkbox"/> Area around crane barricaded
<input type="checkbox"/> Lock Out/Tag Out		<input type="checkbox"/> Lifting equipment inspected <input type="checkbox"/> Personnel protected from overhead load
<input type="checkbox"/> Soil Disturbance (Over 12")		<input type="checkbox"/> Reviewed as-built <input type="checkbox"/> Subsurface surveys <input type="checkbox"/> Received dig permit
<input type="checkbox"/> Utility Clearance		<input type="checkbox"/> Required clearance distance = _____ Ft. <input type="checkbox"/> Safe work zone Marked
Required PPE	<input type="checkbox"/> Electrical	<input type="checkbox"/> Lock Out/Tag Out/Try Out <input type="checkbox"/> Permit required? <input type="checkbox"/> Confirm that equipment is de-energized
<input checked="" type="checkbox"/> Hard Hat, Class C	<input checked="" type="checkbox"/> Excavations	<input type="checkbox"/> Reviewed electrical safety procedures
<input type="checkbox"/> Hard Hat, Class E (Elect. Protect)	<input checked="" type="checkbox"/> Fire Hazard	<input type="checkbox"/> Permits <input checked="" type="checkbox"/> Inspected prior to entering <input checked="" type="checkbox"/> Proper sloping/shoring
<input checked="" type="checkbox"/> Ear Plugs/Ear Muffs	<input checked="" type="checkbox"/> Vehicular Traffic or Heavy Equipment	<input checked="" type="checkbox"/> Barricades provided <input checked="" type="checkbox"/> Access/egress provided <input checked="" type="checkbox"/> Protection from accumulated water
Eye Protection:	<input checked="" type="checkbox"/> Noise >85 dB	<input type="checkbox"/> Hot Work Permit <input checked="" type="checkbox"/> Fire Extinguishers <input type="checkbox"/> Fire watch
<input checked="" type="checkbox"/> Safety Glasses	<input checked="" type="checkbox"/> Hand & Power Tools:	<input type="checkbox"/> Adjacent area protected <input checked="" type="checkbox"/> Unnecessary flammable material removed
<input type="checkbox"/> Face Shield	<input type="checkbox"/> Hand Hazards	<input type="checkbox"/> Traffic Barricades <input checked="" type="checkbox"/> Cones <input checked="" type="checkbox"/> Signs <input checked="" type="checkbox"/> Flagmen <input checked="" type="checkbox"/> Lane closure
<input type="checkbox"/> Chemical Goggles	<input type="checkbox"/> Manual Lifting	<input checked="" type="checkbox"/> Communication with equipment operator
<input type="checkbox"/> Welding Hood	<input type="checkbox"/> Ladders	Hearing protection is required: <input checked="" type="checkbox"/> Ear plugs <input type="checkbox"/> Ear Muffs <input type="checkbox"/> Both
Hand Protection:	<input checked="" type="checkbox"/> Scaffolds	<input checked="" type="checkbox"/> Inspect general cond. <input checked="" type="checkbox"/> GFCI in use <input checked="" type="checkbox"/> Identified PPE required for each tool
<input checked="" type="checkbox"/> Cut Resistant Gloves	<input checked="" type="checkbox"/> Slips, Trips Falls	<input checked="" type="checkbox"/> Reviewed safety requirements in operators manual(s) <input checked="" type="checkbox"/> Guarding OK
<input type="checkbox"/> Welders Gloves	<input type="checkbox"/> Pinch Points	List sharp tools, material, equipment: <u>Utility knives, slings, chokers, straps, _____</u>
<input type="checkbox"/> Nitrile Gloves	<input type="checkbox"/> Working w/ Chemicals	<input checked="" type="checkbox"/> PPE gloves, etc. <input checked="" type="checkbox"/> Protected sharp edges as necessary
<input type="checkbox"/> Surgical Gloves	<input type="checkbox"/> Asbestos or Lead Paint Potential	<input checked="" type="checkbox"/> Reviewed proper lifting tech. <input checked="" type="checkbox"/> Identified material requiring lifting equipment
<input checked="" type="checkbox"/> Rubber Gloves	<input type="checkbox"/> Heat Stress Potential	<input checked="" type="checkbox"/> Hand protection required <input checked="" type="checkbox"/> Back support belts
<input type="checkbox"/> Elect. Insulated Gloves	<input type="checkbox"/> Cold Stress Potential	<input checked="" type="checkbox"/> Inspect general cond. before use <input checked="" type="checkbox"/> Ladder inspected with in last quarter
<input type="checkbox"/> Arm Sleeves	<input type="checkbox"/> Environmental	<input checked="" type="checkbox"/> Ladder tied off or held <input checked="" type="checkbox"/> Proper angle and placement <input checked="" type="checkbox"/> Reviewed ladder safety
Foot Protection:	<input checked="" type="checkbox"/> Natural or Site Hazards	<input checked="" type="checkbox"/> Inspect general condition before use <input type="checkbox"/> Tags in place <input checked="" type="checkbox"/> Properly secured
<input checked="" type="checkbox"/> Sturdy Work Boots	<input type="checkbox"/> Adjacent Work/Processes	<input checked="" type="checkbox"/> Toe boards used <input checked="" type="checkbox"/> Footings adequate <input type="checkbox"/> Materials properly stored on scaffold
<input checked="" type="checkbox"/> Safety Toe Boots	<input checked="" type="checkbox"/> Barricades/covers	<input checked="" type="checkbox"/> Inspect for trip hazards <input checked="" type="checkbox"/> Hazards marked <input checked="" type="checkbox"/> Tools & material properly stored
<input type="checkbox"/> Rubber Boots		<input checked="" type="checkbox"/> Extension cords properly secured <input checked="" type="checkbox"/> Work zone free of debris
<input type="checkbox"/> Rubber Boot Covers		List potential pinch points: <u>tailgates, hoisting equipment, swing radius of machine, operating equipment within trench box.</u>
<input type="checkbox"/> Dielectric Footwear		<input checked="" type="checkbox"/> Working near operating equipment <input type="checkbox"/> Hand/Body positioning
Respiratory Protection:		<input checked="" type="checkbox"/> List specific chemicals involved and list hazards and precaution on front side.
<input type="checkbox"/> Dust Mask		<input checked="" type="checkbox"/> Reviewed MSDS <input type="checkbox"/> Exposure Monitoring required <input checked="" type="checkbox"/> Have proper containers and labels.
<input type="checkbox"/> Air Purifying Respirator		<input checked="" type="checkbox"/> Identified proper PPE (respirators, clothing, gloves, etc.)
<input type="checkbox"/> Supplied Air Respirator		<input type="checkbox"/> Areas to be worked may contain asbestos or lead paint <input type="checkbox"/> Asbestos controls incorporated
<input type="checkbox"/> SCBA		<input type="checkbox"/> Lead based paint controls in place <input type="checkbox"/> Exposure monitoring conducted.
<input type="checkbox"/> Emergency Escape Respirator		<input checked="" type="checkbox"/> Heat stress monitoring (>85°) <input checked="" type="checkbox"/> Liquids available <input checked="" type="checkbox"/> Cool down periods
Special Clothing:		<input checked="" type="checkbox"/> Sun Screen <input checked="" type="checkbox"/> Reviewed Heat Stress symptoms
<input type="checkbox"/> Tyvek®		<input type="checkbox"/> Proper clothing (i.e., gloves, coat, coveralls) <input type="checkbox"/> Wind chill <32°
<input type="checkbox"/> Poly Coated Tyvek®		<input type="checkbox"/> Reviewed Cold Stress symptoms <input type="checkbox"/> Warm up periods
<input type="checkbox"/> Fire Resistant Coveralls		<input type="checkbox"/> Air emissions <input type="checkbox"/> Water discharge <input type="checkbox"/> Hazardous wastes <input type="checkbox"/> Other wastes
<input type="checkbox"/> Rain Suit		<input type="checkbox"/> Pollution prevention <input type="checkbox"/> Waste minimization
<input checked="" type="checkbox"/> Safety Vest		<input checked="" type="checkbox"/> Weather <input checked="" type="checkbox"/> Terrain <input checked="" type="checkbox"/> Adjacent operations or processes <input checked="" type="checkbox"/> Biological hazards
Fall Protection:		<input checked="" type="checkbox"/> Animals/reptiles/insects hazards
<input type="checkbox"/> Harness		<input type="checkbox"/> Notified them of our presents <input type="checkbox"/> Other workers adjacent, above, or below.
<input type="checkbox"/> Double Lanyard Required		<input type="checkbox"/> Coordinated with adjacent supervisor/customer/operator <input type="checkbox"/> Need barriers between.
<input type="checkbox"/> Anchorage Point Available		<input type="checkbox"/> Caution barricade tape required <input type="checkbox"/> Danger barricade tape required <input type="checkbox"/> Rigid railing required
<input type="checkbox"/> Additional Anchorage Connector Needed e.g. Cross Arm Strap, etc.		<input checked="" type="checkbox"/> Covers over opening <input checked="" type="checkbox"/> Warning signs required
<input type="checkbox"/> Retractable Device Needed		Additional Information:
<input type="checkbox"/> Horizontal Life Line System Req'd.		
<input type="checkbox"/> Fall Clearance Distance Adequate		
<input type="checkbox"/> Fall Rescue/Retrieval Plan Set Up		

Working with chemicals: Chemical hazards are limited to the handling of gasoline and diesel fuel. Hazards include fire, respiratory, dermal and ingestion. Workers have been trained in the use of proper PPE and the importance of safe handling and proper storage of flammables. Gas powered equipment will not be operated without a fire extinguisher near by.

F

Appendix
F

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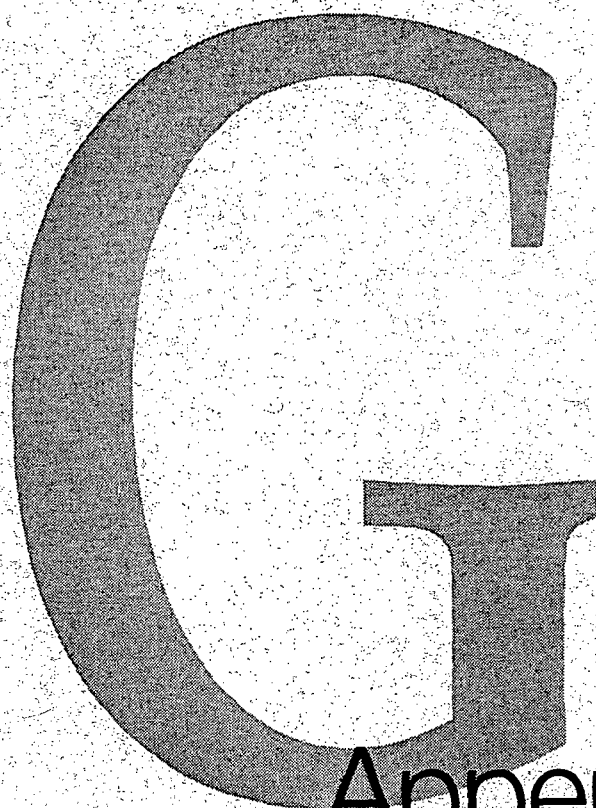
Appendix F

OU3- Rustic Mall- WO-08

CONTRACT NO. W912DQ-04-D-0023 TO #0001

PRE-FINAL INSPECTION PUNCHLIST

Item #	Task	Contract Specification Section/Estimated Completion Date	SES P.O. Approval Initial/Date	USACE Final Approval Initial/Date
1	Remove all litter (filter fabric) from Rustic Mall Area.	2/21/08	MB 2/21/08	MT 2/27/08
2	Perform grading/leveling of stone where SES/USACE Office Trailers used to be.	02201-Backfill & Compaction 2/21/08	MB 2/21/08	MT 2/27/08
3	Complete demobilization activities	01500-Temporary Facilities 7/1/08	JC 5/29/08	MT 6/10/08
4	Disconnect Electric Service	01500- Temporary Facilities 7/1/08	JC 5/14/08	MT 6/10/08
5	Disconnect Sanitary Sewer Service	02531- Sanitary Sewer 7/1/08	JC 5/14/08	MT 6/10/08
6	Disconnect Water Service	02510-Water Distribution Line 7/1/08	JC 5/12/08	MT 6/10/08
7	Remove WWTP Discharge Line from Ground	10100-WWTP 7/1/08	JC 5/14/08	
8	Final Closure Documents	01780-Project Closeout 3/24/08	JC Rev. 5/21/08	Needs Revisions MT 6/10/08
9	Final Restoration As-builts and Cross-Sections	01550-Surveying 3/24/08	Due in by 6/13/08	Rec'd 6/20/08 MT 6/24/08
10	Revised Temporary Facilities Layout	01500-Temporary Facilities	JC 2/29/08	MT 6/10/08



Appendix G

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION II

DATE: March 19, 2008

SUBJECT: Federal Creosote Operable Unit 3 Final Inspection

FROM: Rich Puvogel
Central New Jersey Remediation Section

TO: Site File

This memo documents the final inspection of Operable Unit 3 at the Federal Creosote Superfund Site. The inspection was conducted by EPA and the New Jersey Department of Environmental Protection. In attendance at the inspection were Rich Puvogel, the United States Environmental Protection Agency's remedial project manager, Mandeep Talwar, of the United States Army Corps of Engineers, Joel Czachorowski, of Severson Environmental Services, Inc., and Drew Sites of the New Jersey Department of Environmental Protection.

The inspection of OU3 was conducted on the morning of March 19, 2008. During the final inspection Mr. Sites, Mr. Talwar, Mr. Puvogel, and Mr. Czachorowski walked through the the remediated areas of OU3 (the Rustic Mall property).

Although minor punch list items were identified during the inspection relating to the elevation of a storm sewer grate and demobilization of the last trailer remaining on site, no outstanding issues concerning the remediation were raised during the inspection and the remediation of the Rustic Mall was considered complete.